



United States Department of Agriculture

Plant Guide for Resource Managers

Field reference for common plant species
in the Pacific Southwest Region

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CONTENTS

Introduction	5	Subalpine	10
Plant Species Identification	5	Coastal Scrub	11
Current Botanical and Common Names	5	Coastal Range	12
Codes Used in This guide	5	Annual Grassland	13
Plant Symbols	5	Foothill Oak Woodland	13
Nativity	6	Chaparral	14
Wetland Indicator Status	6	Sagebrush Steppe	15
Greenline stability rating (= channel bank stability rating)	6	Conifer Forest—Northern & Southern Conifer.	17
Ecological Status codes for meadow types (C, I, R)	6	Citations	20
Resource Value Ratings (RVR) for livestock	7	Grasses	25
Vegetation Types	7	Grasslikes	41
Montane Meadows	7	Forbs/Ferns	51
Non-Meadow Riparian	9	Shrubs/Trees	119
		Appendix	143









Introduction

The information in this guide is intended to provide resource managers with a quick reference to the most common plants found in uplands and riparian areas in the Pacific Southwest Region of the Forest Service. This guide provides important ecological information for resource managers for each of the plant species and also indicates the vegetation type where each species grows, i.e. meadow or upland vegetation types. Important ecological information for each species is given including:

- whether a species is native or non-native
- wetland status, i.e. the probability of a species occurring in wetlands
- greenline stability rating (=ability of a species to stabilize streambanks) for species that occur along streambanks
- ecological status ratings for meadow plant species
- resource value rating (RVR) for livestock, i.e. palatability for livestock

Plant Species Identification

It is important for resource land managers and field specialists to be able to identify the important plants within their areas of responsibility. Plants are often indicators of site potential, site history, past management, ecological status, and resource value. As individual plants are identified, they can then be listed collectively to identify plant associations and rangeland cover types.

Ecologists, range conservationists, wildlife biologists, foresters, botanists, hydrologists and other personnel who deal in land management should become familiar with locally important plants through self-training or by attending plant

identification training sessions which can be conducted by Regional Office or Forest specialists on a request basis. The Plant List is not intended to be all inclusive, but is intended to cover the most significant plant species in the Pacific Southwest Region of the Forest Service.

Current Botanical and Common Names

The 2000 version of the Pacific Southwest Region Range Plant List (Lorenzana and Davis 2000) included most species needed for ecological inventory and assessments as well as allotment inspections and rangeland analysis in Region 5. Botanical names listed were recognized as valid in *The Jepson Manual, Higher Plants of California* (Hickman 1993). The previous plant list was recognized as valid in *A California Flora* (Munz 1959). All plant symbols linked to an accepted or synonym scientific name were developed by the Natural Resource Conservation Service and are listed alphabetically and taken from the listing for *Plants of California* (USDA-NRCS 2016).

The vascular plant nomenclature, most phytogeography, and other accompanying data found in *Plants of California* (Kartesz 1994) for the plants known to occur within North America were provided under a cooperative agreement by John Kartesz and his staff at the Biota of North America Program (BONAP). Portions of these data are copyrighted by John Kartesz (1994), Biota of North America Program. The copyright notice must be preserved on all copies. All users of *Plants of California* data are to acknowledge the contribution made by NRCS and BONAP.

Vernacular or common names have been derived from the *Plants of California* database as of January 6, 1994. The integration of vernacular names is still in progress, and the list was incomplete. The incomplete vernacular names were filled in from those found in *A California Flora* (Munz 1959), *Illustrated Flora of the Pacific States* (Abrams 1960), and *Illustrated Manual of California Shrubs* (McMinn 1970). In this second version of the R5 plant list, all plant symbols, scientific and vernacular or common names are adapted from the Second edition of the *Jepson Manual* (Baldwin et al. 2012) and the Jepson online interchange (<http://ucjeps.berkeley.edu/>).

The January 2012 revised *Jepson Manual* (2nd edition) included many changes (Baldwin et al. 2012). Because of new and updated taxonomic information, many scientific and vernacular or common names were changed. In late 2013, the 2000 plant list was revised to conform with the recent and many changes exhibited in the 2nd edition *Jepson Manual*. Each plant in the list was reviewed one by one and compared with recent changes in the 2nd edition *Jepson Manual*. Each plant in the *Jepson Manual* data base (Jepson online interchange, California Floristics, UC Berkeley) are listed with scientific and common names, plant symbols, location by county, and usually with a series of color photos of each plant to aid in identification. The data base was used extensively to complete this task.

Codes Used in This guide

Plant Symbols

All plant codes in this guide are from the USDA Natural Resources Conservation Service PLANTS Database (USDA, NRCS. 2016). The PLANTS Database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories and codes are listed in the NRCS PLANTS database at: <http://plants.usda.gov/>.

Nativity

Nativity refers to whether the plant is native to the area or not. Plants with an asterisk next to the botanical name are non-native species. Non-native plants ("introduced" or "exotics") have been introduced to an area from outside their native range, either purposefully or accidentally. The term non-native in this guide refers to plant taxa non-native to California as indicated in The *Jepson Manual* (Baldwin et al. 2012). Some non-native species such as cheatgrass (*Bromus tectorum* L.) have become severe weeds that often out-compete native grasses and forbs. Under some conditions, some non-native species have become invasive. Where these species replace significant proportions of native plant communities, they may modify vegetation structure, the fire regime, hydrology, soil erosion rates, and forage production. These changes in turn can have significant effects on wildlife populations for example.

Wetland Indicator Status

The wetland indicator status is a system of categorizing plant species in terms of their probability of occurring in wetlands. The system is maintained by the U.S. Army Corps of Engineers (USACE) and the most recent list at the time of this writing is dated 2014 (Lichvar et al. 2014). It has five general categories: obligate, facultative wetland,

facultative, facultative upland, and upland. Obligate species almost always occur in wetlands, whereas upland species almost never occur in wetlands, as described in table 1. We used California ratings where available and national when California region was not available.

Table. 1. Wetland indicator status codes and descriptions. (USACE 2012)

WETLAND INDICATOR STATUS	CODE	ESTIMATED PROBABILITY A SPECIES OCCURS IN WETLANDS
Obligate	OBL	Almost always (99%)
Facultative wetland	FACW	Usually (67-99%)
Facultative	FAC	Equally likely to occur in wetlands or non-wetlands (34-66%)
Facultative upland	FACU	Not usually (1-33%)
Upland	UPL	Almost never (1%)

Greenline stability rating (= channel bank stability rating)

The ability of a plant to stabilize streambanks and provide protection against erosion is termed the Greenline Stability Rating (from Winward 2000). This is also synonymous with a stream channel bank stability rating. The type of rooting system, the strength of the roots, and the below-ground coverage of the root system determines the ability of a plant to stabilize streambanks. Each plant species has been assigned a stability class ranking, ranging from 1 (least) to 10 (greatest), rating its ability to buffer the forces of moving water (Winward 2000). This rating is useful for quantifying the bank stability for stream channels when used with a protocol such as *Multiple Indicator Monitoring* (MIM) (Burton et al. 2011).

or the Greenline method (Winward 2000). Greenline stability ratings provided in this guide were taken from (Winward 2000; Burton et al. 2011).

Ecological Status codes for meadow types (C, I, R)

Three codes are used to rate a plant species: C = competitor, I = intermediate, and R = ruderal. Several sources (Ratliff 1985, Lorenzana and Davis 2000, Burton et al. 2011, Weixelman and Gross 2017, in press) were used to rate species. The rating describes how a plant generally responds to disturbance and are presented based on general group characteristics. However, it should be noted that due to the ecological complexity of meadows and disturbance interactions, the three categories are not mutually exclusive. Some species, for example willows (*Salix* spp.) exhibit traits of both Competitor and Intermediate categories. Further work may help define which species exhibit responses that are characteristic of more than one category. We will continue to refine these ratings as new information becomes available, so review them carefully and corroborate them with local experience. The abundance of these three plant functional types on a meadow site are often related to the degree of disturbance and history of disturbance on a meadow. The definitions of competitor, intermediate, and ruderal are:

Competitor species (C) typically occupy sites with low to moderate amounts of disturbance and are generally more competitive in later successional stands (Grime 1977, Del Moral 1984, Ratliff 1985, sensu lato Boutin and Keddy 1993, Jones 2011). These species are associated with lower amounts of bare soil and deeper root length densities allowing for access to deeper soil moisture and providing greater soil stability. These species are generally native perennial grasses and perennial grasslike species.

Intermediate species (I) live in areas of moderate intensity disturbance and are able to adapt to moderate to high levels of stress imposed by the environment (Grime 1977). In wetlands and meadow areas, this often means adapting to changing water table levels and disturbance. Species that have adapted this strategy generally have slower growth rates, long lived leaves, high rates of nutrient retention, and low phenotypic plasticity (Grime 1977). These species are low statured rhizomatous herbaceous dicots, tall herbaceous dicots, species that are able to fix nitrogen, perennial spikerush plants, most geophytes, and perennial non-native grasses.

Ruderals (R) are plant species that prosper in situations of high intensity disturbance and usually low intensity environmental stress (Grime 1977, Del Moral 1984, Ratliff 1985, sensu lato Boutin and Keddy 1993, Jones 2011). These species are fast-growing, annual/biennial, or low growing (< 0.6 m) perennial herbaceous dicots that are non-rhizomatous that rapidly complete their life cycles, and generally produce large amounts of seeds. These species are generally found in meadow sites with higher bare soil amounts created by disturbance.

When rating the ecological condition of a site, the Ratliff system is often used (see Ratliff 1985, page 46). Note that the Ratliff classification uses the names decreaseurs, increasers, and invader species to describe plant groups and their response to disturbance. The crosswalk between the terms used in this guide and the Ratliff system are as follows: Competitor = Decreaser; Intermediate = Increaser; and Ruderal = Invader.

Resource Value Ratings (RVR) for livestock

The resource value ratings for livestock (preference rating) are given for each of the vegetation types where the plant is known to occur. Codes and descriptions for the three ratings are given in the table below. RVR ratings for herbaceous species are for the average across seasons, RVR ratings for woody species are given for spring and fall, e.g. L/M. Appendix 1 lists RVR's for plant species across seasons and are taken from the Rangeland Analysis and Management Handbook for the California Region (Region 5). The resource value ratings identified here are for the California Region. For our initial list (2000), we reviewed RVR lists from Region 4, and rangeland plants from California (Jepson Manual, 1992), and species were added to these lists to create the R5 list. In 2012, the Jepson Manual (2nd edition) was revised which necessitated a revision of the Region 5 resource rating list to update scientific and common names found in the Jepson Manual (2nd edition). Most of the RVR ratings for shrubs are from the Region 4 list and also from *California Range Brushlands and Browse Plants* (Arthur W. Sampson and Beryl Jesperson, Univ. of California Agricultural Experiment Station, Extension Service, Nov. 1963).

We will continue to refine these ratings as new information becomes available, so review them carefully and corroborate them with local experience before basing any management decisions on them. The Regional Office will coordinate any necessary changes and updates for the California Region.

DEFINITION: Resource Value Rating (RVR). *The value of a particular resource within a plant community for a particular use or benefit.* Resource value ratings may be established for each plant community within an ecological type, including exotic or cultivated species.

Preferences for cattle is based on the palatability and degree of use by livestock for a plant or a plant part..

H	High	Highly relished and consumed to a high degree
M	Moderate	Moderately relished and consumed to a moderate degree
L	Low	Not relished and normally consumed only to a small degree or not at all

Vegetation Types

For National Forests in the State of California, ten general vegetation type subdivisions were used to build the Plant List and facilitate its use. The function of providing vegetative distributions in a botanical reference source is to help the user predict where plant taxa can be expected to grow within our National Forest rangelands. Two hierarchical outlines were used in combination to describe these subdivisions: Geographic Subdivisions of California from *The Jepson Manual* (Hickman 1993) and Habitat Descriptions from *A Guide to Wildlife Habitats of California* (Mayer & Laudenslayer 1988). The *Jepson Manual* was also referenced for geographic and elevational distributions of each species throughout the State.

The following wildlife habitat descriptions have been paraphrased from each Habitat Description chapter in *A Guide to Wildlife Habitats of California* (Mayer & Laudenslayer 1988). Contributing authors from the habitat guide are noted in parenthesis.

Montane Meadows

Wildlife habitats occurring in the Montane Meadow type are as follows:

- Wet Meadow
- Mesic Meadow
- Dry Meadow

Wet Meadow (Ratliff 1985) occur throughout virtually every forest type of the Sierra and Pacific Northwest floristic provinces and as inclusions in the northern coastal prairie and sagebrush steppe. Where conditions are favorable, wet meadows occur in the Transverse and Peninsular Ranges of southern California. In the Sierra Nevada and Cascade Ranges, wet meadows usually occur above 3900 ft in the north and above 5900 ft in the south. In the Klamath Mountains, wet meadows occur in the red fir zone at 4600 ft to 6400 ft elevation.

The water table in wet meadows is generally near the surface (within the rooting zone) for most of the growing season. Wet meadows at all elevations generally have a simple structure consisting of a layer of herbaceous plants. Shrub or tree layers are usually absent or very sparse; they may, however, be an important feature of the meadow edge. Wet meadow sites are dominated by species with a wetland rating of Obligate (OBL) or Facultative Wetland (FACW) plant species.

Wet meadows occur with a great variety of plant species; therefore, it is not possible to generalize species composition. Species may differ, but several genera are common to wet meadows throughout the State. They include *Carex*, *Juncus*, *Eleocharis*, *Scirpus*, *Agrostis*, and *Salix*. Important grasses and grasslike plants include beaked sedge, Nebraska sedge, long-bracted sedge, small-bracted sedge, tufted hairgrass, pull-up muhly, few-flowered spikerush, Dombey's spikerush, Baltic rush, Nevada rush, swordleaf rush, pointed rush, and paniced bulrush. Important and common forbs are alpine aster, Jeffrey shooting star, tinker's penny, primrose

monkeyflower, cowbane, mountain bistort, MacCloskey's violet, and mountain clover. Willow and bilberry are the only shrubs found in any large abundance.

Wet meadows occur where water is at or near the surface most of the growing season, either in spring following spring runoff where the water source is dominated by snowmelt, or nearly year-round where the water source is dominated by groundwater discharging at the surface (Weixelman et al. 2011). In a hydrogeomorphic sense, wet meadows occur in riparian sites (lotic), depressional (sunken concave), or discharge slope (hanging) sites based on classifications by Weixelman et al. (2011) and Ratliff (1985). Riparian (or lotic) sites are those with main input flow (other than precipitation) from upstream sources; at least early in the growing season and have adequate slope which permits drainage of surface water. Depressional (or sunken concave) receive water from precipitation and upstream sources. These sites lose water primarily through evapotranspiration. Discharge slope (or hanging sites from Ratliff) are watered by discharge of groundwater at the surface in the form of springs or seeps. Meadows may be complex both in a geomorphic and hydrologic sense, and may have one or more hydrogeomorphic types present in the same meadow (Weixelman et al. 2011).

Mesic Meadow

Mesic Meadows also occur throughout every forest type of the Sierra and Pacific Northwest floristic provinces and as inclusions in the northern coastal prairie and Sagebrush Steppe. Where conditions are favorable, mesic meadows may also occur in the Transverse and Peninsular Ranges of southern California. In the Sierra Nevada and Cascade Ranges, mesic meadows usually occur above 3900 ft and in the north and above 5900 ft in the south. In the Klamath

Mountains, mesic meadows occur in the red fir zone at 4600 ft to 9000 ft. Mesic meadows are dominated by either Facultative wetland species or a combination of Obligate wetland (OBL), Facultative wetland (FACW) and Facultative species (FAC).

Wet and mesic meadow types are differentiated by the depth to water table and the length of time the water table is within the rooting zone. These types may occur adjacent to each other in the same meadow. Mesic meadows occur where soils are saturated within the rooting zone early in the growing season, then the water table drops below the rooting zone in the latter half of the growing season. Mesic meadows become drier during the later portion of the growing season, but remain moist enough to support a myriad of herbaceous plants similar to wet meadows but occasionally with increased forbs in the composition. Since they occur with a great variety of plant species like wet meadows, it is not possible to generalize species composition. Species may differ from those found in wet meadows, several genera are common to mesic meadows throughout the State. They include *Carex*, *Juncus*, *Eleocharis*, *Scirpus*, *Agrostis*, *Deschampsia*, *Poa*, and *Danthonia*. Important grasses and grasslike plants include Kentucky bluegrass, tufted hairgrass, mountain bent, Idaho bent, alpine timothy, bluejoint reedgrass, California oatgrass, meadow barley, and pull-up muhly. Important grasslike plants include Nebraska sedge, long-bracted sedge, small-winged sedge, Jones sedge, wooley sedge, short-beak sedge, baltic rush, nevada rush, pointed rush, swordleaf rush, straight-leaf rush, few-flowered spikerush, pale spikerush, Dombey's spikerush, Congdon's bulrush, and paniced bulrush. Common forbs are alpine aster, mountain western aster, Mtn. bistort, Jefferey's shooting star, tinker's penny, primrose monkeyflower, mountain clover, carpet clover, bowl clover, and long-stalked clover and cinquefoil.

Dry Meadow

Dry Meadows are areas where soil moisture is adequately available during the first half or so of the summer to support perennial sod-forming grasses, bunchgrasses, sedges, rushes and forbs (Ratliff 1985, Weixelman et al. 2011). The water table is generally below the rooting zone of these plants for the entire growing season. They become drier during the late portion of the growing season due to lowering water tables and drainage due to a more coarse substrate of the meadow soils. In subalpine settings, they occur generally at about 8000 feet or higher.

The variety of vegetation is less than in wet meadows, often supporting more sod-forming or bunchgrass species. Typical grasses and grasslike plants at higher elevations include Brewer reedgrass, Canada reedgrass, tufted hairgrass, pull-up Muhly, variable bentgrass, Idaho bentgrass, shorthair sedges, Sierra ricegrass, Drummond rush, few-flowered spikerush, Brewer's sedge, threadleaf sedge, Clement's bulrush, and woodrush. Common forbs include alpine aster, alpine shooting star, Parish's yampah, slender cinquefoil, dusky horkelia, Sibbaldia, gentians and clovers. Typical grasses and grasslike plants at lower elevations include needlegrasses (*Stipa* spp.), muhly (*Muhlenbergia richardsonis*), and wheatgrass (*Elymus* spp.). Common forbs include glaucous Agoseris, Rydberg's penstemon, and northern goldenrod. Dry meadows are generally dominated by species with a wetland rating of Facultative (FAC) or Facultative Upland (FACU) species.

Non-Meadow Riparian

Wildlife habitats occurring in the Non-Meadow Riparian type are as follows:

- Montane Riparian
- Valley Foothill Riparian
- Desert Riparian
- Fresh Emergent Wetland
- Vernal Pools

Montane Riparian (Grenfell 1988) is found in the Klamath, Cascade, Coast and Sierra Nevada Ranges, south to Kern and northern Santa Barbara Counties. It is also found in the Peninsular and Transverse Range of southern California from Santa Barbara to San Diego Counties, and north from San Luis Obispo to Del Norte Counties along the immediate coast. The vegetation of Montane Riparian zones is quite variable and structurally diverse. Usually it occurs as a narrow, often dense grove of broad-leaved, winter deciduous trees up to 98 feet tall with a sparse understory. At high elevations it is usually less than 49 feet high and has more shrubs in the understory. At the high elevation, Montane Riparian may not be well developed or may occur in the shrub stage only. In northwest California along streams west of the Klamath mountains, black cottonwood is a dominant hardwood. In some areas, it is codominant with bigleaf maple. At higher elevations, black cottonwood occurs with quaking aspen, white alder, and thin-leaf alder.

In northeastern California, black cottonwood, white alder and Sitka alder dominate the montane riparian zone. Oregon ash, willow and high diversity of forbs are common associates. In the Sierra Nevada, the associates include thinleaf alder, aspen, black cottonwood, dogwood, azalea, willow and water birch. In the southern Coast Range as well as the Transverse and Peninsular Ranges, bigleaf maple and California bay are typical dominants. Fremont cottonwood is the most important cottonwood in the Sierra below 5000 feet; in much of the Coast Range, the Transverse and Peninsular Ranges.

Montane riparian can occur as alder or willow stringers along streams of yearlong seeps. In other situations, an overstory of fremont cottonwood, black cottonwood and/or white alder may be present. The transition between Montane Riparian intergrades with montane chaparral, montane hardwood, montane hardwood conifer, lodgepole pine, red fir, and wet meadow subtypes.

Valley Foothill Riparian (Grenfell 1988) is found in valleys bordered by sloping alluvial fans, slightly dissected terraces, lower foothills and coastal plains. It occurs in the Central Valley, and lower foothills of the Cascade Ranges, Sierra Nevada, and Coast Ranges. It is found in lower slopes at the bases of the Peninsular and Transverse Ranges. Lower elevation locations are on the desert side of the southern California mountains. Valley Foothill Riparian types range from sea level to 3,000 ft, fingering upward to 5000 ft on south facing slopes. It is generally associated with low velocity flows, flood plains, and gentle topography. Valleys provide deep alluvial soils and a high water table. The substrate is coarse, gravelly or rocky soils more or less permanently moist, and well aerated. Average precipitation is 6 to 30 inches, with little or no snow. Coastal areas have more moderate climate than the interior and receive some summer moisture from fog.

Canopy height is approximately 100 ft in a mature riparian forest, with a canopy cover 20 to 80 percent. Most trees are winter deciduous. Dominant species in the canopy layer are cottonwood, California sycamore and valley oak. Subcanopy trees are white alder, California box elder, and Oregon ash. Typical understory shrub layer plants include wild grape, wild rose, California blackberry, wild raspberry, blue elderberry, poison oak, and willows.

The herbaceous layer consists of sedges, rushes, grasses, miner's lettuce, Douglas sagewort, poison hemlock, and nettles. Cottonwood or willow tree habitats close to river channels that receive a good silt infusion, without major disruptive flows tend to be self perpetuating.

Desert Riparian (Laudenslayer 1988) habitats are found along permanent streams and at seeps and springs in the Mojave and Sonoran Deserts and in desert canyons of the Peninsular Range. They are generally found at elevations less than 3000 feet, however, willow thickets may be found well above that level in the mountains. Desert Riparian is characterized as dense groves of low, shrub-like trees or tall shrubs to woodlands of small to medium-sized trees. It is found adjacent to permanent surface (e.g. streams and springs) or in subirrigated areas. Usually an abrupt transition occurs between this and adjacent shorter and more open desert vegetation.

Dominant canopy species include tamarisk, velvet ash, mesquite, screwbean mesquite, Fremont cottonwood, and willows such as Gooding's, Hind's, and arroyo willow. The subcanopy includes shorter, smaller individuals of the canopy species as well as quailbush, Mojave seablight, desert lavender, seep willow, and arrowhead.

Fresh Emergent Wetland (Kramer 1988) occurs on virtually all exposures and slopes, provided a basin or depression is saturated or at least periodically flooded. However, they are mostly on level to gently rolling topography. It is found in various landscape depressions or at the edge of rivers or lakes. Fresh Emergent Wetland vegetation zones characteristically occur as a series of concentric rings which follow basin contours and reflect relative depth and duration of flooding. Climatic conditions are highly variable

and range from the extreme summer heat of Imperial County to the Great Basin climate of Modoc County where winter temperatures are often well below freezing.

Vegetation is characterized by erect, rooted herbaceous hydrophytes. Dominant vegetation is generally perennial monocots up to 6 feet tall. All emergent wetlands are flooded frequently, enough so that the roots of the vegetation prosper in an anaerobic environment. Vegetation may vary in size from small clumps to vast areas covering several kilometers. On the upper margins of Fresh Emergent Wetland, saturated or periodically flooded soils support several moist soil plant species including: sedges, Baltic rush, nutgrasses, and on more alkali sites, saltgrass. On wetter sites, common cattail, bulrushes, and arrowhead are potential dominant species.

Vernal Pools are ephemeral wetlands formed in shallow depressions underlain by a substrate near the surface that restricts the percolation of water. They are characterized by a barrier to overland flow that causes water to collect and pond. These depressions fill with rainwater and runoff from adjacent areas during the winter and remain inundated until spring or early summer, sometimes filling and emptying several times during the wet season (CNPS Vernal Pool Monitoring Guidelines 1994).

Vernal pools are divided into northern California and southern California sections. Five vernal pool groups are recognized in northern California: Northern basalt flow vernal, Northern claypan vernal, Northern hardpan vernal, Northern volcanic ashflow vernal, and Northern mudflow vernal. Three vernal pool groups are recognized in southern California: San Diego Mesa vernal pools, San Jacinto Valley vernal pools, and Santa Rosa Plateau vernal pools (A Manual of California Vegetation 1995).

Depending on the location and type of vernal pool you may encounter, several plant genera are common and typical of vernal pools. These include *Juncus*, *Downingia*, *Gratiola*, *Limnanthes*, *Lasthenia*, *Orcuttia*, *Navarretia*, *Eryngium*, *Isoetes*, and *Myosurus*.

Subalpine

Wildlife habitats occurring in the Subalpine type are as follows:

- Subalpine Conifer
- Subalpine Red Fir (>8000 ft)
- Subalpine Lodgepole Pine (>9000 ft)
- Alpine Dwarf Shrub
- Subalpine Meadows (>8000 ft)

Subalpine Conifer (Verner & Purcell 1988) is open forest with needle-leaved evergreen trees of low to medium stature. In protected sites at lower elevations, tree height may exceed 100 ft, but trees on exposed sites and windy ridges near tree line are shaped into stunted, mat-like forms. Shrubby vegetation and herbaceous ground cover are generally sparse or lacking. Several species dominate canopies of this type in different localities, either singly or in mixtures of two or more species. These include Englemann spruce, mountain hemlock, red fir, western white pine, lodgepole pine, whitebark pine and limber pine. A shrubby understory may include: Parry manzanita, mahala mat, purple mountain heather, oceanspray and big sagebrush. Low willows, western blueberry, Sierra bilberry and alpine laurel occur on moist sites. Western wheatgrass, California brome, mountain brome, squirreltail, spike trisetum and brewer lupine are common herbaceous ground cover. It is generally distributed at high elevations in all significant mountain ranges of the State. It is well represented in the north from 7000 to 9500

feet; and in the Sierra Nevada from 9000 to 11,000 ft. This subtype is poorly represented in southern California.

Subalpine Red Fir (Barrett) wildlife habitat is distributed in an elevational band from about 6,000 to 9,000 feet. It extends from northern Lake County northward through the North Coast Ranges, and from Kern County northward through the Sierra Nevada into the Cascade Ranges of southwestern Oregon. Large expanses of nearly monotypic stands of red fir are common throughout its range. Heavy shade and a thick layer of duff lends to inhibit understory vegetation, especially in dense stands. To the north, red fir gives way to noble fir. Mountain meadows of various sizes, sometimes associated with small lakes are also typical of red fir habitats. At higher elevations, red fir habitats include increasing numbers of mountain hemlock, western white pine, whitebark pine, and a lesser extent, foxtail pine and limber pine.

Subalpine Lodgepole (Bartolome 1988) wildlife habitat is scattered throughout the state, but concentrated in the Sierra Cascades. Significant stands, however, occur in the higher mountains of southern California. Typically the lodgepole pine zone is found above red fir and below other subalpine conifer vegetation types. Although the boundaries between lodgepole pine and meadows are dynamic, they are easily differentiated in classification of the existing landscape. It typically forms open stands of similarly sized trees in association with few other species and with a sparse understory. Mature Sierran stands often contain significant seedling and saplings. Occasional associates include aspen and mountain hemlock. The amount of understory may be virtually absent, consisting of scattered shrubs and herbs, or a rich herbaceous layer at meadow margins. Many stands are associated with meadow edges and streams, where the understory consists of a

variety of grass, forbs and sedges. Understory shrubs such as huckleberry, ribes, and mountain heather may be common.

Alpine Dwarf Shrub (Benson 1988) wildlife habitat is found only in the highest elevations in California. Toward the north, it is found on the highest peaks of the Klamath Range. It is also found on Mt. Shasta and Mt. Lassen. In the Sierra Nevada it is confined to the highest peaks, from Lake Tahoe to Yosemite, usually above 8500 feet. From that point southward, it is almost continuous along the Sierra Nevada crest to Olancha Peak. In southern California, it is confined to the summit region and adjoining ridgelines above 10000 feet in the San Bernardino, San Gabriel, and San Jacinto Mountains. It is almost continuous along the main ridge of the White Mountains above 11000 feet elevation. It is typically low graminoid and forb communities with an admixture of dwarf shrubs (often cushion plants). The perennial herb or dwarf shrubs comprising these communities are usually less than 18 inches tall. Coverage may reach 100 percent at low elevations and becoming increasingly open as elevations increase. Species composition varies considerably throughout California. The most common shrubs are creambush oceanspray, Greene goldenweed, and white heather. The most common alpine shrub in the White Mountains is the timberline sagebrush. Nonshrub species include Eschscholtz buttercup, primrose, Sibbaldia, buckwheat, rock cress, mountain sorrel, pussypaws, paintbrush, squirreltail, sedges and Scribner's wheatgrass.

Subalpine Meadows occur throughout subalpine forest type of the Sierra and Pacific Northwest floristic provinces at elevations ranging from 8000 to 11500 ft. As with montane meadows (4500 to 8000 ft), subalpine meadows can have wet, mesic or dry moisture regimes. High elevation meadows generally have a simple structure consisting of lower

herbaceous plants. They occur as openings in the forest canopy, or as broad open meadows at or above timberline. They occur with a great variety of plant species. Species may differ, but several genera are common in wet meadows. They include Agrostis, Carex, Danthonia, Poa, Eleocharis, Juncus, Calamagrostis, Deschampsia, Salix and Scirpus. Important grasses include pull-up Muhy, Sierra ricegrass, alpine timothy, tufted hairgrass, managrass, and Kentucky bluegrass. Important forbs are: primrose monkeyflower, mountain bistort, shooting stars, tinker's penny, McCloskey's violet, carpet clover and Sierra bilberry.

Coastal Scrub

Wildlife habitat wildlife habitat occurring in the Coastal Scrub type:

- Coastal scrub

Coastal Scrub (de Becker 1988) is described as low to moderate sized shrubs with mesophytic leaves, flexible branches, semiwoody stems growing from a woody base and a shallow root system. It occurs in a narrow strip throughout the length of California. Coastal scrub usually occurs within about 20 miles of the ocean; in Riverside County, it extends at least 50 miles inland. Elevation ranges from sea level to 3000 ft. Structure differs among stands, mostly along a gradient that parallels the Pacific coastline. Two types of northern Coastal scrub are usually recognized. The first type (limited in range) occurs as low growing patches of bush lupine at exposed oceanside sites. The second more common type of northern Coastal scrub usually occurs at less exposed sites. Here, coyotebrush or chaparral broom dominates the overstory. Other common overstory species are blueblossom ceanothus, coffeeberry, salal, bush monkey flower, blackberry, poison oak, and wooley sunflower. Southern



sage scrub occurs intermittently over a larger area than the northern Coastal Scrub types and is subdivided into three main types. Differences in composition of the three types correspond mostly to available moisture. A fairly common species in all three types is California sagebrush. The most mesic area from Mt. Diablo to Santa Barbara is dominated by black sage and California buckwheat. In the less mesic region from Santa Barbara south to Orange County, purple sage and California buckwheat join the black sage in importance. Golden yarrow, bush monkey flower and California encelia are typical. Understory herbaceous layer includes annual fescues, bromes, melic grass, wild oats, bluegrass and needlegrass. A variety of annual forbs also occur in this subtype.

Coastal Range

Wildlife habitats occurring in the Coastal Range type are as follows:

- Closed-Cone-Pine-
 - Montane Hardwood
 - Cypress
- Montane Hardwood-
 - Conifer
 - Douglas Fir
 - Coast Redwood

Closed-cone Pine-cypress (Jensen 1988) occurs in patches as an interrupted forest along coastal California from southern San Diego County north to Oregon. Inland, the distribution is a few widely scattered locations in the Peninsular and Coast Ranges and in the north and central Sierra Nevada. The closed-cone pine vegetation types are similar to each other and are described separately from Cypress types although some types contain both pine and cypress. Cypress types may reach heights of 20 to 66 feet. The understory is a well-developed shrub layer of chaparral species (chamise and manzanita) on open, well drained sites and a low, dense shrub cover and herbaceous layer on the poorly drained soils. Pine

types typically reach heights of 60 to 70 feet and have a shrub layer of chaparral species with a high relative cover (up to 100%) and a sparse herbaceous cover.

Montane Hardwood-conifer (Anderson 1988) occurs throughout California and is somewhat continuous from Santa Cruz County northward through the outer North Coast Range into Oregon, usually some distance inland from the coast. It follows the upper and/or inland margins of the coastal redwood or Douglas fir. It can be found on north facing slopes of the inner North Coast range, Santa Lucia Mountains and small patches extending to Santa Barbara County. It occurs somewhat continuously down the Sierra Nevada to the Transverse Range. Isolated patches can be found throughout the Transverse and Peninsular Ranges of southern California. Montane hardwood-conifer includes a mix of conifers and hardwoods, often as a closed forest. At least one-third of the trees must be conifer and at least one-third must be broadleaf. This type often occurs in a mosaic-like pattern with small pure stands of conifers interspersed with small stands of broadleaf trees. Common associates are ponderosa pine, Douglas fir, incense cedar, California black oak, tanoak, Pacific madrone, Oregon white oak, and other localized species. Species composition varies among different geographic areas. In the north coast, California black oak, Oregon white oak, golden chinquapin, and canyon live oak are commonly found with white fir, Douglas fir and ponderosa pine. In the Klamath Mountains and North Coast from the Oregon border to Marin County, Oregon white oak, tanoak, Pacific madrone, red alder, Douglas fir, western red cedar, western hemlock, ponderosa pine, sugar pine and knobcone pine are common. In the Central Coast, common associates include coast live oak, bigleaf maple, Pacific madrone, tanoak, canyon live oak, Coulter pine, coastal redwood, and to a lesser extent, California black oak and ponderosa pine.

Montane Hardwood (McDonald 1988) is composed of a pronounced hardwood tree layer, with an infrequent and poorly developed shrub stratum, and a sparse herbaceous layer. In the Coast range and Klamath Mountains, canyon live oak often forms pure stands on steep canyon slopes and rocky ridgetops. Middle elevation associates are Douglas fir, tanoak, Pacific madrone, California laurel, California black oak, knobcone pine and gray pine. Oregon white oak and coast live oak are abundant at lower elevations. Understory vegetation is mostly shrubs and herbaceous vegetation. Herbaceous forage includes: bluegrass, melic grass, soft chess, ripgut brome, annual fescues, perennial fescues, wild oats, needlegrasses and a variety of annual forbs. In the Transverse and Peninsular Ranges of southern California, overstory associates at the middle and higher elevations are Jefferey pine, ponderosa pine, sugar pine, incense cedar, white fir, California black oak, and Coulter pine. At lower elevations, plant associates include white alder, coast live oak, big leaf maple, California laurel, gray pine and blue oak. Understory shrubs are manzanita, ceanothus, poison oak, and coffeeberry. Herbaceous cover is composed of bluegrasses, bromes, melic grass, wild oats, annual fescues, wildrye, needlegrass and a wide variety of forbs.

Coastal Oak Woodland (Holland 1988) occur in the coastal foothills and valleys from Trinity and Humboldt Counties south through the coastal regions of the northern and southern Coast Range, Transverse and Peninsular Ranges of southern California. They extend beyond the counties of southern California into coastal Baja California, where they reach their southern limit.

The vegetation is extremely variable. The overstory consists of deciduous and evergreen hardwoods (mostly oak at 15 to 70 ft) sometimes mixed with scattered conifers. In mesic sites,



the trees are dense and form a closed canopy. In drier sites, the trees are widely spaced, forming an open woodland or savannah.

Composition of both overstory trees and understory of coastal oak woodland varies and reflects the environmental diversity over which this habitat occurs. In the North Coast Range south to Sonoma County, Oregon white oak is the common deciduous white oak. Under favorable conditions, California black oak, canyon live oak, madrone, and interior live oak are found mixed with Oregon white oak. Oregon white oak is also found with western juniper in drier volcanic soils of the Cascades. The shrubby and grassland understory is similar in structure and composition to the blue oak/gray pine (foothill woodland) of Central California. Gray pine is common to both wildlife habitats.

From Sonoma County south, the coastal oak woodlands are usually dominated by coast live oak. In many coastal regions, the coast live oak is the only overstory species. In mesic sites, trees characteristic of mixed evergreen forests mix with coast live oak, such as California bay, madrone, tanbark oak, and canyon live oak. On drier, interior sites, coast live oak mixes with valley oak, blue oak, and gray pine.

Typical understory plants in dense coast live oak woodlands are shade tolerant shrubs such as California blackberry, creeping snowberry, toyon, and herbaceous plants such as bracken fern, fiesta flower, and miner's lettuce. In drier sites where coast live oak woodlands intergrade with chaparral, species such as greenleaf manzanita, chamise, gooseberries, currants, and ceanothus species form the understory. Where vegetative types intergrade with coastal scrub, typical understory plants are bush monkeyflower, coyote brush, black sage, and California sagebrush. Herbaceous cover in all areas described includes: bluegrasses, needlegrass, wild

oats, slender wild oats, melic grass, bromes, annual fescues, perennial fescues, wildrye, and a variety of perennial and annual forbs.

Douglas Fir (Raphael 1988) in northwest California, forms a complex mosaic of forest expression due to the geologic, topographic, and successional variation typical within its range. Typical aggregations include a lower overstory of dense broad-leaved evergreen trees (tanoak, Pacific madrone) with an irregular, often open, higher overstory of evergreen trees (Douglas fir). A small number of pole and sapling trees occur throughout the stands. On wet sites, shrub layers are well developed, often with 100 percent cover. Cover of herbaceous forage under the shrubs can be up to 10 percent. At higher elevations, the shrubs disappear and the herb layer is often 100 percent. Dry habitats have a greater cover of shrubs and especially grasses which include bluegrasses, melic grass, bromes, annual and perennial fescues, wild oats, wildrye and needlegrass.

Coast Redwood (Mayer 1988) is characterized by even-aged structure with an open parklike appearance. Most of this type is second-growth with occasional old growth stages. Other associates are Sitka spruce, grand fir, red alder, and Douglas fir. Further inland, Douglas fir becomes dominant with tanoak and madrone. Understory composition is diverse and varies along a north-south/east-west gradient. Important species are sword fern, deer fern, chain fern, salal, coast rhododendron, California huckleberry, coast fireweed, creambush oceanspray, salmonberry and poison oak. Herbaceous species include bluegrass, annual and perennial fescues, bromes, melic grass, wildrye, needlegrass, and a variety of annual and perennial forbs.

Annual Grassland

Wildlife habitats occurring in the annual grassland type are as follows:

- Annual Grassland

Annual Grassland (Kie 1988) occurs throughout the central valley of California, in the coastal mountain ranges as far north as Mendocino County, and in scattered locations in southern California. It occurs from about sea level to about 3,900 feet in elevation. Annual grasslands are open grasslands composed primarily of annual plant species. Many of these species also occur as understory plants in Valley oak woodland and other vegetation types. Structure in annual grassland depends largely on weather patterns and livestock grazing. Introduced, naturalized, annual grasses are the dominant plant species. These include: wild oats, slender wild oats, soft chess, ripgut brome, red brome, wild barley and annual fescues. Common forbs include broadleaf filaree, redstem filaree, turkey mullein, true clovers, bur clover, medics, popcorn flower and many other forbs. Perennial grasses, found in moist, lightly grazed areas or relic prairie areas include needlegrass and Idaho fescue.

Vernal pools, found in small depressions with a hardpan soil layer, support Downingia, meadow foam, and other species.

Foothill Oak Woodland

Wildlife habitats occurring in the Foothill Oak Woodland type are as follows:

- Blue Oak Woodland
- Valley Oak Woodland
- Blue Oak/Gray Pine



Blue Oak Woodland (Ritter 1988) occurs along the western foothills of the Sierra Nevada-Cascade Ranges, the Tehachapi Mountains, and in the eastern foothills of the Coast Range, forming a nearly continuous ring around the Central Valley. It is found in scattered patches in the Transverse and Peninsular Ranges. It has an overstory of scattered trees, mostly blue oaks. The canopy is dominated by broad leaf trees (16 to 50 feet tall), commonly forming open savannah-like stands on dry ridges and gentle slopes. Shrubs are often present, but rarely extensive. Typical understory is composed of an extension to the Annual Grassland subtype.

Valley Oak Woodland (Ritter 1988) patches are found as remnants in the Sacramento Valley from Redding south, in the San Joaquin Valley to the Sierra Nevada foothills, in the Tehachapi Mountains and in the valleys of the Coast Range from Lake County to western Los Angeles County. It varies from savannah-like to forest-like stands with partially closed canopies, comprised mostly of deciduous broad-leaved trees. Denser stands typically grow in valley soils along natural drainages. Tree density decreases with transition from lowlands to less fertile soils of drier uplands. Canopies are dominated almost exclusively by valley oaks. Tree associates include California sycamore, Hind's black walnut, interior live oak, and blue oak. The common understory shrubs consist of poison oak, blue elderberry, California wild grape, toyon, California coffeeberry, and California blackberry. Herbaceous understory is composed of an extension to the Annual Grassland subtype.

Blue Oak-Gray Pine (Verner 1988) generally forms a ring around the foothills of the Central Valley between 500 and 3000 feet in elevation. The Pit River of the Cascade Range and foothills of the Klamath Mountains mark the approximate northern limit. It is nearly continuous in the western foothills

of the Sierra Nevada. This distribution extends south into the Liebre Mountains of northern Los Angeles County and the drainages of Piru Creek of Ventura County. It is discontinuous in the Coast Range west of the Central Valley from Ventura to Mendocino Counties. It is typically diverse in structure both vertically and horizontally, with a mix of hardwoods, conifers, shrubs and herbaceous cover. The shrub component is composed of several species that tend to be clumped with interspersed patches or openings of annual grassland. Blue oak and gray pine typically comprise the overstory with blue oak most dominant. In the foothills of the Sierra Nevada, tree species typically associated with this are interior live oak and California buckeye. At lower elevations, where blue oaks make up most of the canopy, the understory tends to be primarily annual grasses and a variety of forbs. At higher elevations the understory usually includes patches of shrubs in addition to the annual grasses and forbs.

Chaparral

Wildlife habitats occurring in the Chapparal type are as follows:

- Mixed chaparral
- Chamise/Redshank chaparral
- Montane Chaparral

Mixed Chaparral (England 1988) is a floristically rich type that supports approximately 240 species of woody plants. Composition changes between northern and southern California and with precipitation regime, aspect, and soil type. Dominant species include scrub oak, several species of ceanothus and manzanita. Commonly associated shrubs include: chamise, birchleaf mahogany, silk tassel, toyon, yerba santa, California buckeye, poison oak, holly-leaf cherry, chaparral pea, and California fremontia. Understory

herbaceous layer includes annual fescues, bromes, melic grass, wild oats, bluegrass and some needlegrass. Many annual forbs occur in this subtype.

Mixed Chaparral generally occurs below 5000 ft on mountain ranges throughout California except in the deserts. It occurs throughout the Transverse, Peninsular, and Central Coast Ranges and the Tehachapi Mountains. In the Sierra Nevada, this type is a broken band in the middle and lower elevations of the western slope. It also occupies large areas in the northern ranges especially on the interior slopes, and is found as large discontinuous patches in the Siskiyou Mountains and Cascade and Klamath Ranges.

Chamise/Redshank Chaparral (England 1988b) may consist of nearly pure stands of chamise or redshank, a mixture of both, or with other shrubs. Toyon, sumac, poison oak, redberry, and buckthorn are commonly found in drainage channels and on other relatively mesic exposures. Ceanothus and sugarbush sumac are common associates of redshank. In southern California, white sage, black sage, and California buckwheat are common at lower elevations and on recently disturbed sites. Understory herbaceous layer includes: annual fescues, bromes, melic grasses, wild oats, bluegrasses and needlegrass. A variety of annual forbs occur in this subtype.

This type is usually found below 4000 ft on mountain ranges outside the deserts. Large, nearly pure areas of redshank-dominated chaparral occurs in the interior valleys of the Peninsular Range of Riverside and San Diego Counties; isolated stands are found in the Santa Monica Mountains and in northern Santa Barbara and San Luis Obispo Counties. Chamise is the dominant shrub of this vegetative type throughout the rest of the state. Nearly pure stands of chamise cover large areas in the Peninsular and Transverse

Ranges and Tehachapi Mountains of southern California. To the north, chamise more frequently mixes with other shrubs, especially several species of ceanothus. It also covers large areas in the central coast ranges and on the eastern exposures of the north coast ranges; as isolated stands in the Cascade and Klamath Ranges and Siskiyou Mountains; and in a broken band in the western slope of the Sierra Nevada.

Montane Chaparral (Risser & Fry 1988) wildlife habitat is associated with mountainous terrain from mid to high elevations (5000 to 10000 feet). It occurs in southern California above 7000 feet in the Transverse Range of Los Angeles, and in the San Bernardino, Riverside and San Diego Counties; from Siskiyou to Kern Counties in the Cascade and Sierra Nevada Mountains; and is a minor type from Tehama to Lake Counties; and in Del Norte, Siskiyou, Trinity, and Shasta Counties in the north Coast Ranges and Klamath Mountains. Montane chaparral growth form can vary from tree-like to prostrate. When mature, it is often impenetrable to large animals. It is characterized by evergreen species, however, deciduous or partly deciduous species may also be present. Species composition changes with elevational and geographical range, soil type and aspect. One or more of the following species usually characterizes the upper montane chaparral communities: whitethorn ceanothus, snowbrush ceanothus, greenleaf manzanita, pinemat manzanita, bittercherry, huckleberry oak, hoary manzanita, Sierra chinquapin, Greene goldenweed, and mountain mahogany. Herbaceous species include wheatgrasses, bentgrasses, mountain brome, reedgrass, timberline bluegrass, squirreltail and needlegrass.

Sagebrush Steppe

Wildlife habitats occurring in the Sagebrush Steppe type are as follows:

- Pinyon Juniper
- Juniper
- Low Sage
- Bitterbrush
- Sagebrush
- Desert Scrub
- Alkali Desert Scrub
- Desert Wash

Pinyon-Juniper (Laudenslayer & Boggs 1988) has elevational variation with changes in latitude. It is found from 6000 to 9000 ft in the Sierra Nevada; 4000 to 8000 ft in Mohave Desert; and 3500 to 5000 ft in San Jacinto and Santa Rosa Mountains. Most Pinyon-Juniper is found east of the Sierra Nevada although single-needle pinyon is found in Santa Barbara and Ventura Counties. It typically is an open woodland of low, round crowned, bushy trees. Depending on site suitability, they range from 30 to 50 feet in height. Crowns of individual trees rarely touch and canopy cover is less than 50 percent. Open groves of overstory trees often have dense to open layer of shrubs and a variety of herbaceous grasses and forbs including western wheatgrass, blue grama, Indian ricegrass and cheatgrass. Shrub-size plants in the subcanopy include big sagebrush, blackbrush, narrowleaf goldenbush, curleaf mahogany and rabbitbrush.

Juniper (Laudenslayer 1988b) wildlife habitats can be found from sea level to above 10000 feet elevation. The distribution of Juniper in California is described by the range of western juniper south to where pinyon pine becomes an important associate. This area includes northeastern California south and east to northern Inyo County. It is characterized as woodlands of open to dense aggregations of junipers, in the form of aborescent shrubs or trees. Dispersion of junipers ranges from small clumps to widely scattered single plants. Shrub species typically associated with juniper include antelope bitterbrush, California buckwheat, gray horsebrush, green mormon-tea, curleaf mountain mahogany, big

sagebrush and black sagebrush. Typical forbs and grasses include bighead clover, Pacific bluegrass, Idaho fescue, one-spike oatgrass, bottlebrush squirreltail and bluebunch wheatgrass.

Low sage (Verner 1988b) is generally dominated by either low sagebrush or black sagebrush, often in association with Douglas rabbitbrush, antelope bitterbrush or big sagebrush. Black sagebrush is commonly associated with winterfat and Mormon tea. Western juniper may be sparsely scattered in low sagebrush stands. Utah juniper and singleleaf pinyon are sometimes scattered in stands dominated by black sagebrush. Common grass species include Pacific bluegrass, bluebunch wheatgrass, bottlebrush squirreltail, Thurber's needlegrass, Idaho fescue and a rich variety of forbs. Low sagebrush communities are generally restricted to elevated arid plains along the eastern flanks of the Sierra Nevada, from Inyo County northward through Modoc and Siskiyou Counties.

Bitterbrush (Neal 1988) has elevational variation with changes in latitude, exposure, soil and precipitation. Two species occur, antelope bitterbrush and desert bitterbrush and is occasionally found in pure stands. Antelope bitterbrush ranges from east of the Cascade and Sierra Nevada crest from Oregon, south to Inyo County. It extends west of the crest in the Transverse Ranges of Shasta and Siskiyou Counties. Desert bitterbrush is found from Inyo and Mono Counties on the north where it mixes with antelope bitterbrush, south into eastern Kern County.

Bitterbrush varies from small, widely spaced shrubs to large, closely spaced shrubs with more than 90 percent canopy cover. Stands usually contain 750 to 3000 plants per hectare (300 to 1200 per acre). It often occurs as a codominant with big sagebrush or rubber rabbitbrush, gray



horsebrush, Douglas rabbitbrush, Mormon tea, curlleaf mountain mahogany and desert peach. Overstory species are ponderosa pine, Jefferey pine, lodgepole pine, or western juniper. Understory herbaceous plants vary and include Idaho fescue, bottlebrush squirreltail, needlegrass, bluebunch wheatgrass, buckwheat and Phlox. Desert bitterbrush is found mixed with big sagebrush, fourwing saltbush, creosote bush, rubber rabbitbrush, Mormon tea, and spiny hopsage. Common understory species are Thurber needlegrass, buckwheat, common snakeweed and big galleta.

Sagebrush (Neal 1988b, Weixelman et al. 1999) is a continuous strip along the east and northeast borders of California south into Inyo County. It occupies dry slopes and flats from about 1600 to 10500 ft in elevation. It occurs typically in large, open, discontinuous stands with fairly uniform height. Density ranges from open, widely-spaced small plants to large, closely-spaced plants with canopies touching. Many stands include other species of sagebrush, rabbitbrush, horsebrush, gooseberry, western chokecherry, curlleaf mountain mahogany and bitterbrush. Several species and subspecies of sagebrush occur in California. As topography, soil moisture, and soil composition change through the sagebrush type, the dominant species of sagebrush changes. On alluvial bottoms with deep soils, basin big sagebrush (*Artemesia tridentata* ssp. *tridentata*) is common. On lower slopes and alluvial fans, Wyoming sagebrush (*Artemesia wyomingensis*) dominates. At higher elevations, mountain big sagebrush (*Artemesia tridentata* ssp. *vaseyanus*) dominates the slopes. On low flats with shallow soils and restricted drainage, low sagebrush (*Artemesia arbuscula*) is dominant. Where soil remains saturated throughout the spring, silver sagebrush (*Artemesia cana*) dominates. Black sagebrush dominates sites with soils high in gravel and carbonates. Various amounts of herbaceous

understory are found such as: needlegrass, squirreltail, Pacific bluegrass, and Great Basin wildrye. After disturbance and during years with excess moisture, annual grasses such as cheatgrass and medusahead invade sagebrush stands. At higher elevations, sagebrush may occur as an understory with mountain mahogany, pinyon-juniper and ponderosa pine.

Desert Scrub (Laudenslayer & Boggs 1988b) is the most widespread habitat in the California deserts. It occurs in California throughout the Mohave and Sonoran Deserts at suitable elevations. Desert Scrub typically are open, scattered assemblages of broad-leaved evergreens or deciduous microphyll shrubs. Canopy cover is generally less than 50 percent; usually much less. Bare ground is often between shrub interspaces. Desert Scrub generally has low species diversity. Associated species include catclaw acacia, desert agave, coastal bladderpod, bitterbrush, burrobush, white bursage, barrel and hedgehog cactus, cholla, Wiggen's croton, desert globe mallow, Douglas and rubber rabbitbrush. Forbs and grasses are sparse.

Alkali Desert Scrub (Rowlands 1988) occurs in California throughout the Mojave Desert, within the Great Basin portion of northeastern California and in the southern San Joaquin Valley. It can generally be found surrounding the receding shores of large prehistoric lakes and alkali playas that mark the location of dry lake beds. At sites where the halophytic phase predominates, the available ground water is usually at or very close to the surface and is heavily mineralized. Alkali scrub occurs from below sea level in Death valley to over 5900 feet in some Great Basin locations.

Some primary perennial plant species of the xerophytic phase include various species of shrubby saltbushes, and other important shrubs such as bud sagebrush, white

bursage, creosote bush, Fremont Dalea, Nevada ephedra, spiney hopsage, spiney menodora and winterfat. Subshrubs include cheesebush, desert alyssum, desert prince's plume, alkali goldenbush and snakeweed. The diversity of cactuses and other succulents in the Alkali scrub is relatively low. Forbs and grasses known only from this type of vegetation include Torrey blazingstar, buckwheats, cleomella, desert sunbonnet, Booth evening primrose, desert globe mallow, Nevada goosefoot, desert pepperweed, spurge, sand dropseed, galletgrass, Indian ricegrass and King's eyelash grass.

Some primary perennial shrub and subshrub species of the halophytic phase include arrow-weed, black greasewood, alkali goldenbush, alkali rubber rabbitbrush, alkali blite, species of saltbush and salt cedar. Forbs and grasses include alkali heath, common glasswort, heliotrope, various species of annual saltbushes, wirerush, yerba mansa, aparejograss, alkali Muhly, alkali sacaton and saltgrass.

At lower middle elevation, Alkali Desert Scrub may interface with Joshua tree; and at middle elevations with Juniper, Pinyon-Juniper, Sagebrush, Low Sagebrush, and Bitterbrush. Throughout the Alkali Desert Scrub range, Desert Wash and Desert Riparian may occur as inclusions. In the San Joaquin Valley, Alkali Desert Scrub borders the Annual Grassland.

Desert Wash (Laudenslayer 1988c) is characterized by the presence of aborescent often spiny shrubs generally associated with intermittent streams (washes) or drier bajadas (alluvial deposits adjacent to washes), especially in the Sonoran Desert. Plants are generally taller than those of the surrounding desert habitats. Heights of Desert Wash plants usually do not exceed 15 ft. However, some mesquite stands are as tall as 30 ft.

Soils tend to be sandy or gravelly; some wash plants may be found in a variety of soils. This type is often found in association with canyons, arroyos, washes, and other features that contain water for at least part of the year. Presence of water during part of the year appears to be essential for the habitat to exist.

Conifer Forest—Northern & Southern Conifer

Wildlife habitats occurring in the Conifer Forest type are as follows:

- | | |
|--|---|
| <ul style="list-style-type: none">• Red Fir• Lodgepole Pine• White Fir• Eastside Pine• Sierran Mixed Conifer• Klamath Mixed Conifer | <ul style="list-style-type: none">• Montane Hardwood-Conifer• Jefferey Pine• Ponderosa Pine• Aspen• Douglas Fir |
|--|---|

Red Fir (Barrett 1988) wildlife habitat is distributed in an elevational band from about 6000 to 9000 feet in elevation. It extends from northern Lake County northward through the north Coast Range and from Kern County northward through the Sierra Nevada into the Cascade Range of southwestern Oregon. Red fir is typified by even-aged groups of trees that cover several thousands of square meters. Mature red fir stands normally are monotypic, with very few other species in any layer. Heavy shade and a thick layer of duff tends to inhibit understory vegetation, especially in dense stands. In the Klamath Mountains, red fir gives way to noble fir.

Lodgepole Pine (Bartolome 1988) wildlife habitats are scattered throughout the State, but concentrated in the Sierra Nevada and southern Cascades. Significant stands, however, occur in the higher mountains of southern California. Lodgepole pine typically forms open stands of similarly sized individuals in association with few other species and

with sparse understory. Mature Sierran stands often contain significant seedlings and saplings. Lodgepole pine dominates the type. Occasional associates include aspen and mountain hemlock. The amount of understory may be absent or sparse, consisting of scattered shrubs and herbs, or a rich herbaceous layer at meadow margins or stringer meadows. Many lodgepole pine stands are associated with meadow edges and streams, where the understory consists of grasses, forbs and sedges. In the southern Sierra, the understory may consist of huckleberry and mountain heather.

White Fir (Shimamoto 1988) wildlife habitat is characterized by nearly monotypic even-aged overstory. Elevational range for white fir varies with latitude. In the Klamath Mountains of Trinity and Siskiyou Counties it is found 4500 to 5500 feet; from 5000 to 6000 feet in the Cascade and Warner Mountains; from 5500 to 10000 feet in the central and southern Sierra Nevada; above 6000 feet throughout the Transverse and Penninsular Ranges; and between 6000 to 7000 feet in the southern interior ranges. Shade and downed woody material tend to inhibit understory species. In the Klamath Mountains, canyon live oak and chinquapin are the predominant understory species. Jefferey pine is an associate in the Warner and Cascade Mountain ranges with greenleaf manzanita and currant as understory shrubs. Tree associates in the southern Sierra Nevada include sugar pine, incense cedar, and red fir. Pipssissewa, wintergreen, and currant are understory species.

Eastside Pine (Fitzhugh 1988) occurs from about 4000 to 6500 feet elevation approximately east of a line drawn from Lake Tahoe to Hilt, California. Small scattered stands occur south of Lake Tahoe through the northern half of Inyo County. Eastside pine is characterized by short to moderate height at maturity. Oak or juniper may form an understory. Ponderosa

pine is the dominant tree with less representation by Jefferey pine, lodgepole pine, white fir, incense cedar, Douglas fir, California black oak and western juniper. Undergrowth varies, depending on site condition, but typically include one or more of the following shrubs: big sagebrush, antelope bitterbrush, manzanita, ceanothus, rubber rabbitbrush, mountain mahogany, creambush oceanspray and snowberry. Herbaceous plants include mule ears, arrowleaf balsamroot, Idaho fescue, bluegrass, bluebunch wheatgrass, and bottlebrush squirreltail.

Sierran Mixed Conifer (Allen 1988) generally forms a vegetation band ranging from 2500 feet to 4000 ft in the north; and 4000 to 10000 feet in the southern Sierra Nevada. The Sierra Nevada mixed conifer forest occupies between 4.5 to 7.8 million acres in southern Oregon and California, dominating western middle elevation slopes of the Sierra Nevada. Disjunct populations are found in the Peninsular, Transverse and Coast Ranges of California. It is an assemblage of conifer and hardwood species that form a multi-layered forest. Historically, burning and logging have caused wide variability in stand structure, resulting in both even-aged and uneven-aged stands. Five conifers and one hardwood typify the mixed conifer forest - white fir, Douglas fir, ponderosa pine, sugar pine, incense cedar, and California black oak. Douglas fir dominates the species mix in the north, but is absent south of the Merced River. Ponderosa pine dominates at lower elevations and on south slopes. Jefferey pine commonly replaces ponderosa pine at high elevations, on cold sites or on serpentine-like soils. Red fir is a minor associate at highest elevations. Sugar pine is found throughout the mixed conifer. Black oak is a minor, but widespread component. Deerbrush, manzanita, chinquapin, tan oak, bitter cherry, mahala mat, mountain whitethorn,

gooseberry, wild rose and mountain misery (Bear Clover) are common shrub species in this vegetation type. Grasses and forbs associated with this type include mountain brome, California brome, needlegrass, bluegrass, blue wildrye, sedges, rushes, thistles and Gayophytum.

Klamath Mixed Conifer (Benson 1988b) is located within the Klamath Region, a geologically defined area in northwestern California comprised of a complex of mountain ranges including the Scott, Salmon, Marble and southern Siskiyou Mountains and Trinity Alps. It is typically tall, dense to moderately open, needle-leaved evergreen forest with patches of broad-leaved evergreen and deciduous low tree and shrubs. The overstory layer is characterized by a mixture of conifers. Dominant conifers in the western portion are white fir and Douglas fir. In the eastern portion, dominant conifers are white fir, Douglas fir, ponderosa pine, incense cedar and sugar pine. Other conifers in the overstory layer include Shasta red fir, lodgepole pine, mountain hemlock, western white pine, knobcone pine, Jefferey pine and Brewer spruce. Occasionally broadleaf trees include canyon live oak and California black oak. Dense forest have a very rich shrub layer which can include Sierra laurel, Sadler oak, dwarf rose or western thimbleberry. The shrub layer in open to moderately dense forests include bittercherry, Sierra chinquapin, pinemat manzanita, mahala mat, huckleberry oak, Oregon grape, greenleaf manzanita, wild rose, snowberry, and Juneberry. A variety of forbs and grasses make up a well developed herbaceous layer.

Montane Hardwood-Conifer (Anderson 1988) occurs throughout California, is somewhat continuous from Santa Cruz County northward through the outer Coast Range into Oregon usually some distance inland from the coast. It is found on the north facing slopes of the inner Coast Range, the

Santa Lucia Mountains, as well as small patches extending to Santa Barbara County. It occurs almost continuously down the Sierra Nevada to the Transverse Range and Peninsular Range of southern California. It includes both conifers and hardwoods, often as a close forest. It often occurs in a mosaic-like pattern with small pure stands of conifers interspersed in small stands of broad-leaved trees. Common associates are ponderosa pine, Douglas fir, incense cedar, California black oak, tanoak, Pacific madrone, Oregon white oak and other localized species. These localized species vary throughout the State and include: red alder, western red cedar, western hemlock, bigleaf maple, white alder, dogwood, black cottonwood, canyon live oak. The shrub and herbaceous layer is varied depending on soils, moisture, aspect and site conditions. Common grasses include bromes, fescues, needlegrass, bluegrass, melic grass and wildrye.

Jefferey Pine (McBride 1988) wildlife habitat ranges from 500 feet to 9500 feet, the actual range depending on latitude. This type covers extensive areas in the Klamath Mountains, North Coast Range, Cascade Range, Modoc Plateau, Sierra Nevada (mostly eastside), Transverse Range, and the Peninsular Range in California. The structure varies over its distribution. A single tree layer is characteristic on moderately dry sites. On moist and mesic sites a second tree layer exists which is composed of deciduous hardwood species. It is the dominant species in the upper tree layer. It usually forms pure stands but may have as its associates, ponderosa pine, Coulter pine, sugar pine, lodgepole pine, white fir, red fir, incense cedar and black cottonwood. Dominant species composition of the second tree layer consists of aspen in moist sites and California black oak on mesic sites, and pinyon pine and western juniper on dry sites. Shrub species composition varies between geographical regions. In the Klamath Mountains, huckleberry, scrub oak,

manzanita, Fremont silktassel and coffeeberry dominate the shrub layer. On the western slope of the Sierra Nevada, huckleberry oak, manzanita and bear clover dominate. East of the Sierra-Cascade crest the dominant shrub layer species included wax currant, snowberry and greenleaf manzanita at higher elevations and antelope bitterbrush, rabbitbrush, and sagebrush at lower elevations. Herbaceous layer includes rockcress, buckwheat, Ivesia, lupine, melic grass, Bridge's penstemon and needlegrass. East slope species include: squirreltail, blue wildrye, slender hairgrass, western needlegrass and wooley wyethia.

Ponderosa Pine (Fitzhugh 1988b) wildlife habitat is found on suitable mountain and foothill sites throughout California except in the immediate area of San Francisco Bay, in the north coast area, south of Kern County in the Sierra Nevada and east of the Sierra Nevada crest. It occurs in isolated groups and Riverside San Bernardino, Los Angeles, Ventura and Santa Barbara Counties. Tree-spacing varies from open patchy to extremely close. This type includes pure stands as well as stands of mixed species in which at least 50% of the canopy is ponderosa pine. Typical tree associates include white fir, incense cedar, coulter pine, Jefferey pine, sugar pine, Douglas fir, bigcone Douglas fir, canyon live oak, California black oak, Oregon white oak, Pacific madrone and tanoak. Associated shrubs include manzanita, ceanothus, bear clover, Pacific dogwood, yerba santa, silktassel, bitter cherry, California buckthorn, poison oak, and Sierra gooseberry. Grasses and forbs include California brome, mountain brome, melic grasses, bluegrasses, blue wildrye, beardless wildrye, squirreltail, needlegrasses, fescues, bedstraw, brakenfern, Clarkia, Gilias, Sierra iris, lupines, nightshade, streptanthus and violets.

Aspen (Verner 1988c, Weixelman et al. 1999) habitats in California generally occur from the Sierra Nevada Range in Tulare County north into Trinity and Siskiyou Counties, and Modoc Plateau. The southern limit is an isolated population in the San Bernardino Mountains. Mature stands usually have relatively open canopies, often shared with other deciduous trees and few conifer species, typically pines. Aspen represent an early to mid successional stage and will generally be encroached upon by conifer species in the later successional stages in the absence of fire or other disturbance. Aspen stands are usually composed of clones representing one or more genetic lines. They vary from few stems per acre to many stems per acre. Associated subdominant tree species may include willow, alder, black

cottonwood, lodgepole pine, Jefferey pine, ponderosa pine, red fir, white fir, Douglas fir, and Engleman Spruce. Important understory shrubs include sagebrush, roses, snowberry, western chokeberry, and western serviceberry. Forbs are usually more abundant than grasses or sedges. Grasses include alpine timothy, blue wildrye, geyer wildrye, bluegrasses, bentgrass, reedgrass, bromes, fescues, velvetgrass, and wild barley.

Douglas Fir (Raphael 1988) wildlife habitat occurs in the north Coast Range from Sonoma County north to the Oregon border and in the Klamath Mountains of California and Oregon. In the Sierra Nevada it occurs from Fresno County, along the west slope north to Shasta County.

Overstory composition varies with soil parent material, moisture, topography, and disturbance history. Less rocky, dry soils support Douglas fir, tanoak and Pacific Madrone in association with sugar pine, ponderosa pine, California black oak and canyon live oak. Wettest sites include Pacific yew and Port-Oxford cedar. The shrub layer is typically composed of canyon live oak, Oregon grape, California blackberry, dwarf rose, and poison oak. Mesic sites support vine maple, California hazel, salal, and Pacific rhododendron. Forbs and grasses included Pacific trillium, western swordfern, insideout-flower, broadleaf starflower, deervetch, American deervetch, common whipplea, California honeysuckle, American trailplant and bracken fern.

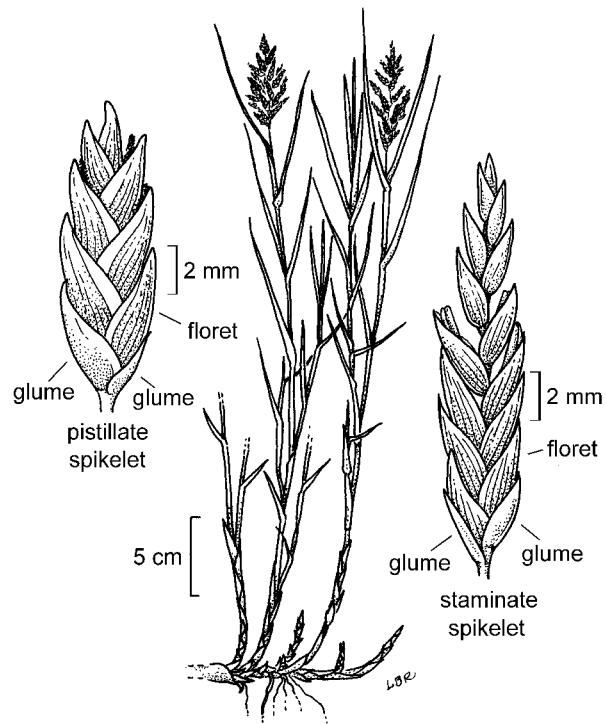
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Distichlis spicata

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Forest Service, Pacific Southwest Region





Festuca rubra

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Botanical Name - Grasses (Page No. 2nd ed. Jepson)	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock									
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF	
ACHNATHERUM (Now STIPA) (p. 1490)	NEEDLEGRASS																
A. coronatum (Now STIPA coronata)	Giant needlegrass	STCO5	UPL							H	H			H			
A. hymenoides (Now STIPA hymenoides)	Western Mtn. ricegrass	STHY6	UPL						H					H			
A. latiglume (Now STIPA latiglumis)	Wide-glummed needlegrass	STLA2	UPL													H	
A. lemmonii (Now STIPA lemmonii and var.)	Lemmon's needlegrass	STLE2	UPL	2			C		H	H				H	H	H	
A. lettermanii (Now STIPA lettermanii)	Letterman's needlegrass	STLE4	UPL	2			C		H					H	H		
A. nelsonii var. dorei (Now STIPA nelsonii var. dorei)	Nelson's needlegrass	STNED2	UPL	2			C							H	H		
A. occidentale (Now STIPA occidentalis and ssp.)	Western needlegrass	STOC2	UPL	2			C		H	H				H	H		
A. pinetorum (Now STIPA pinetorum)	Pinewoods needlegrass	STPI2	UPL						H					H	H		
A. speciosum (Now STIPA speciosa)	Desert needlegrass	STSP3	UPL						H	H	H			H	H		
A. thurberianum (Now STIPA thurberiana)	Thurber's needlegrass	STTH2	UPL											H	H		
A. webberi (Now STIPA webberi)	Webber's needlegrass	STWE	UPL						H					H	H		
AGROPYRON (p. 1413)	WHEATGRASS																
A. cristatum ssp. pectinatum*	Crested wheatgrass	AGCRP8	UPL	2			I							H		H	
AGROSTIS (p. 1413)	BENTGRASS																
A. exarata	Spike bentgrass	AGEX	FACW	2	C	C		H					H			H	H
A. gigantea*	Giant bentgrass	AGGI2	FAC	2	I	I				M	M		M			M	
A. idahoensis	Idaho bentgrass	AGID	FACW	2	C	C	C	H	H			H				H	
A. oregonensis	Oregon bentgrass	AGOR	FAC	2	C	C		H			H					H	
A. pallens	Dune bentgrass	AGPA8	UPL	2			C	H	H		H		H		H	H	H
A. scabra	Rough ticklegrass	AGSC5	FAC	2	I	I	I	M	M		M					M	
A. stolonifera*	Creeping bentgrass	AGST2	FAC	2	I	I	I	M								M	

S=POSTFIRE SPROUTER V=VARIABLE SPROUTER M=MEADOW C=COMPETITOR; I=INTERMEDIATE, R=RUDERAL Resource Value Rating for Livestock: H=HIGH; M=Moderate; L=LOW PO=POISONOUS TO LIVESTOCK Greenline Stability Rating (GLR): 1=LOWEST; 10=HIGHEST *=NON-NATIVE Vegetation Type: R=NON-MEADOW RIPARIAN; SA=SUBALPINE; CS=COASTAL SCRUB; CR=COASTAL RANGE; AG=ANNUAL GRASSLAND; FO=Foothill Oak woodland; CH=CHAPARRAL; SS=SAGEBRUSH STEPPE; CF=CONIFER FOREST

Botanical Name - Grasses (Page No. 2nd ed. Jepson)	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock								
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>A. humilis</i> (Formerly <i>A. thurberiana</i>)	Alpine bentgrass	AGHU	FACW	2	C	C	C		M	M						M
<i>A. variabilis</i>	Mountain bentgrass	AGVA4		2		C	C		H	H						H H
AIR A (p. 1416)	HAIRGRASS															
<i>A. caryophyllea</i> *	Common silver hairgrass	AICA	FACU	2				R	L	L	L	L				L
ALOPECURUS (p. 1416)	FOXTAIL															
<i>A. aequalis</i>	Short-awned foxtail	ALAE	OBL	3	C	C			M	M	M	M				M M
<i>A. geniculatus</i>	Water meadow foxtail	ALGE2	OBL	3	C	C			M	M						M
<i>A. pratensis</i> *	Common meadow foxtail	ALPR3	FAC	4	I	I			M		M					M
ANTHOXANTHUM (p. 1419)	VERNAL GRASS															
<i>A. nitens</i>	Vanilla grass	ANNI		3	C	C			M							
<i>A. odoratum</i> *	Sweet vernal grass	ANOD	FACU	3		I	I	M		M		M				M
ARISTIDA (p. 1420)	THREEAWN															
<i>A. oligantha</i>	Few-flowered threeawn	AROL	UPL							L	L	L	L			L
<i>A. purpurea</i> and var.	Purple threeawn	ARPU9	UPL							L	L	L	L	L		L
<i>A. ternipes</i> var. <i>gentilis</i>	Spider threeawn	ARTEG	UPL							L	L	L	L			L
ARRHENATHERUM (p. 1421)	TALL OATGRASS															
<i>A. elatius</i> *	Tall false oatgrass	AREL3	UPL	4				I		M	M	M	M			M
AVENA (p. 1422)	WILD OAT															
<i>A. barbata</i> *	Slender wild oat	AVBA	UPL							H	H	H	H	H		H
<i>A. fatua</i> *	Common wild oat	AVFA	UPL							H	H	H	H	H		H
BECKMANNIA (p. 1422)	SLOUGH GRASS															
<i>B. syzigachne</i>	American slough grass	BESY	OBL	3	C	C		M								M

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<i>BOUTELOUA</i> (p. 1424)	GRAMA GRASS															
<i>B. eriopoda</i>	Black grama grass	BOER4	UPL													H
<i>B. gracilis</i>	Blue grama grass	BOGR2	UPL													H
<i>BRACHYPODIUM</i> (p. 1425)	FALSE BROME															
<i>B. distachyon</i> *	Purple false brome	BRDI2	UPL									L	L			
<i>BRIZA</i> (p. 1426)	QUAKING GRASS															
<i>B. maxima</i> *	Big quaking grass	BRMA	UPL									L	L	L		
<i>B. minor</i> *	Little quaking grass	BRMI2	FAC	2								L	L	L		
<i>BROMUS</i> (p. 1426)	BROME GRASS															
<i>B. arenarius</i> *	Australian chess	BRAR3										H	H	H	H	H
<i>B. berteroanus</i>	Chilean chess	BRBE2	UPL									M	M			M
<i>B. briziformis</i> *	Rattlesnake chess	BRBR5	UPL									H	H	H	H	H
<i>B. carinatus</i>	California brome	BRCA5	UPL	4	I	C	H					H		H	H	H
<i>B. carinatus</i> var. <i>marginatus</i>	Large Mtn. brome	BRCAM	UPL	4		C	H	H								H
<i>B. catharticus</i> *	Rescue grass	BRCA6	UPL									L		L		
<i>B. ciliatus</i>	Fringed brome grass	BRCI2	FAC	4	C	C	C	H	H			H		H		
<i>B. diandrus</i> *	Ripgut brome	BRDI3	UPL	2								M	M	M	M	M
<i>B. hordaceus</i> *	Soft chess brome	BRHO2	UPL	2								H	H	H	H	H
<i>B. inermis</i> *	Smooth brome	BRIN2	FAC	4	I	I	I					H	H		H	H
<i>B. laevipes</i>	Woodland brome	BRLA3	UPL									L		L		L
<i>B. madritensis</i> *	Foxtail chess	BRMA3	UPL									M	M	M	M	M
<i>B. madritensis</i> ssp. <i>rubens</i> *	Red foxtail brome	BRMAR	UPL									M	M	M	M	M
<i>B. orcuttianus</i>	Orcutt's brome	BROR2	UPL									M	M			M

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<i>B. sterilis</i> *	Poverty brome-grass	BRST2	UPL			R			M	M	M	M	M	M	M	M
<i>B. suksdorfii</i>	Suksdorf's brome	BRSU2	UPL	4		C	C		H		H		H		H	H
<i>B. tectorum</i> *	Cheatgrass	BRTE	UPL	2		R	R	H	H	H	H	H	H	H	H	H
<i>B. vulgaris</i>	Columbia brome	BRVU	FACU	4			R	M		M						M
<i>CALAMAGROSTIS</i> (p. 1431)	REED GRASS															
<i>C. breweri</i>	Brewer's reed grass	CABR	FACW	5	C	C	C	H	H							H
<i>C. canadensis</i>	Canada bluejoint reed grass	CACA4	FACW	8	C	C		H	H							H
<i>C. murriana</i>	Muir's reed grass	CAMU		5			C	H	H							
<i>C. koelerioides</i>	Dense-pine reed grass	CAKO		5			C			H						
<i>C. purpurascens</i>	Purple reed grass	CAPU		5			C		H							H
<i>C. rubescens</i>	Reddish reed grass	CARU	UPL	3							H			H	H	H
<i>C. stricta</i> and ssp.	Slim-stemmed reed grass	CAST36	FACW	7			C	H	H		H					H
<i>CINNA</i> (p. 1434)	WOODREED															
<i>C. bolanderi</i>	Bolander's woodreed	CIBO2	FACW	5	C	C		M								M
<i>C. latifolia</i>	Drooping woodreed	CILA2	FACW	5	C	C		M	M		M					M
<i>CYNODON</i> (p. 1436)	BERMUDA GRASS															
<i>C. dactylon</i> *	Common Bermuda grass	CYDA	FACU							M	M	M	M		M	
<i>CYNOSURUS</i> (p. 1437)	DOGTAIL															
<i>C. cristatus</i> *	Crested dogtail grass	CYCR	FACU							L	L	L	L			
<i>C. echinatus</i> *	Bristly dogtail grass	CYEC								L	L	L	L			
<i>DACTYLIS</i> (p. 1437)	ORCHARD GRASS															
<i>D. glomerata</i> *	Orchard grass	DAGL	FACU	3			I			H	H	H	H	H	H	H

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<i>DANTHONIA</i> (p. 1437)	OAT GRASS															
<i>D. californica</i>	California oat grass	DACA3	FAC	2		C	C	H			H		H		H	H
<i>D. intermedia</i> ssp. <i>intermedia</i>	Timber oatgrass	DAIN	FACU	2			C		H		H				H	H
<i>D. unispicata</i>	Onespike oat grass	DAUN	UPL	2			C		M		M				M	M
<i>DESCHAMPSIA</i> (p. 1438)	HAIR GRASS															
<i>D. atropurpurea</i> (Now <i>VAHLODEA atropurpurea</i>) (p. 1498)	Mtn. hair grass	VAAT2	FACW	3	C	C		H				H				
<i>D. cespitosa</i>	Tufted hair grass	DECE	FACW	4	C	C		H	H		H				H	H
<i>D. danthonioides</i>	Annual hair grass	DEDA	FACW	2	R	R		M	M	M	M	M	M		M	M
<i>D. elongata</i>	Slender hair grass	DEEL	FACW	2	C	C		M	M		M				M	M
<i>DISTICHLIS</i> (p. 1441)	SALT GRASS															
<i>D. spicata</i>	Spiked salt grass	DISP	FACW	4	C	C	C		M	M	M				M	
<i>ECHINOCHLOA</i> (p. 1441)	BARNYARD GRASS															
<i>E. crus-galli</i> *	Common barnyard grass	ECCR	FAC					M		M	M	M				
<i>EHRHARTA</i> (p. 1442)	VELDT GRASS															
<i>E. calycina</i> *	Perennial veldt grass	EHCA								M	M					
<i>E. erecta</i> *	Erect veldt grass	EHER								M	M					
<i>ELYMUS</i> Incl. <i>TAENIATHERUM</i> , <i>ELYTRIGIA</i> , <i>LEY-MUS</i> , <i>PASCOPYRUM</i> , <i>PSEUDOROEGNERIA</i> (p. 1444)	WILD RYE															
<i>E. caput-medusae</i> *	Medusa head grass	ELCA13	UPL	2				R		L	L	L	L	L	L	
<i>E. cinereus</i>	Great-basin wildrye	ELCI2	FAC	8			C	H	H						H	
<i>E. condensatus</i>	Giant wildrye	ELCO4	FACU							M	M				M	
<i>E. elymoides</i>	Bottlebrush squirreltail	ELEL5	FACU	3			C		M		M	M	M		M	M

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<i>E. glaucus</i>	Blue wildrye	ELGL	FACU	5		C	C	H			H		H	H		H
<i>E. hispidus*</i>	Intermediate wheatgrass	ELHI6	UPL							H	H		H		H	H
<i>E. lanceolatus</i> ssp. <i>lanceolatus</i>	Thick-spiked wheatgrass	ELLAL	FACU	4			C			H					H	H
<i>E. multisetus</i>	Big squirreltail	ELMU3							H						H	H
<i>E. ponticus*</i>	Tall wheatgrass	ELPO										M		M	M	M
<i>E. repens*</i>	Common quackgrass	ELRE4	FAC						L	L	L	L	L	L		
<i>E. sierrae</i>	Sierra wildrye	ELSI4		4			C	H								H
<i>E. smithii</i>	Western wheatgrass	ELSM3	FACU			I	H								H	
<i>E. spicatus</i> (Formerly <i>E. pseudoregnaria</i> var. <i>spicata</i>)	Bluebunch wheatgrass	ELSP3								H					H	
<i>E. trachycaulus</i> ssp. <i>trachycaulus</i>	Slender wheatgrass	ELTRT	FAC	5		C	C	H	H	H	H		H		H	
<i>E. triticoides</i>	Beardless wildrye	ELTR3	FAC	5			C	M			M	M	M		M	
<i>ELYTRIGIA</i> (Now <i>ELYMUS</i>) (p. 1444)	WHEATGRASS															
<i>E. elongata*</i> (Now <i>ELYMUS ponticus</i>)	Tall wheatgrass	ELPO										M		M	M	M
<i>E. intermedia</i> ssp. <i>intermedia*</i> (Now <i>ELYMUS hispidus</i>)	Intermediate wheatgrass	ELHI6							H	H		H		H	H	H
<i>E. repens*</i> (Now <i>ELYMUS repens</i>)	Common quackgrass	ELRE4	FAC						L	L	L	L	L	L	L	
<i>ERAGROSTIS</i> (p. 1448)	LOVE GRASS															
<i>E. hypnoides</i>	Teal love grass	ERHY	OBL	2				L		L		L		L		L
<i>E. pectinata</i> var. <i>pectinata</i>	Carolina love grass	ERPEP2	FAC									L		L		L
<i>FESTUCA</i> Incl. <i>LOLIUM</i> , <i>SCHEDONORUS</i> , <i>VULPIA</i> (p. 1451)	FESCUE															
<i>F. arundinacea*</i>	Tall meadow fescue	FEAR3	FAC	4	I	I		H		H		H				
<i>F. brachyphylla</i> ssp. <i>breviculmis</i>	Alpine fescue	FEBRB2							H						H	H

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<i>F. bromoides*</i>	Brome fescue	FEBR4	FACU	2			R		L		L		L			
<i>F. californica</i>	California fescue	FECA	FACU				H			H		H	H		H	
<i>F. idahoensis</i>	Idaho fescue	FEID	FACU	4			C			H				H	H	
<i>F. kingii</i>	King's spiked fescue	FEKI2						M						M	M	
<i>F. microstachys</i>	Reflexed annual fescue	FEMI2		2			R		M	M	M	M	M	M	M	
<i>F. myuros*</i>	Rattail fescue	FEMY2	FACU	2			R		M	M	M	M	M	M	M	
<i>F. occidentalis</i>	Western fescue	FEOC							H		H		H	H	H	H
<i>F. octoflora*</i>	Six-weeks fescue	FEOC3	UPL	2			R		M	M	M	M	M	M	M	
<i>F. perennis*</i>	Ryegrass	FEPE	FAC	2		R	R		H	H	H				H	
<i>F. pratensis*</i>	Meadow fescue	FEPR	FACU	4		I			H						H	
<i>F. rubra</i> and ssp.	Red fescue	FERU2	FAC	4		C	C	H	H	H	H				H	
<i>F. saximontanus</i>	Mountain fescue	FESA						H	H						H	
<i>F. subulata</i>	Bearded fescue	FESU	FACU	4				H		H					H	
<i>F. temulentia*</i>	Poison darnel ryegrass	FETE		2			R			L	L	L				
<i>F. viridula</i>	Greenleaf fescue	FEVI		4		C	C	H							H	
GASTRIDIUM (p. 1455)	NIT GRASS															
<i>G. phleoides*</i> (Formerly <i>G. ventricosum</i>)	Nit grass	GAPH2	FACU						L	L	L	L		L		
GLYCERIA (p. 1455)	MANNA GRASS															
<i>G. borealis</i>	Boreal manna grass	GLBO	OBL	8	C	C		H							H	H
<i>G. elata</i>	Western tall manna grass	GLEL	OBL	8	C	C		H		H					H	H
<i>G. striata</i>	Striate mannagrass	GIST	OBL	8	C	C		H		H					H	H
HESPEROSTIPA (Now STIPA) (p. 1490)	NEEDLE AND THREAD															
<i>H. comata</i> (Now STIPA comata)	Needle and thread	STCO4								H	H			H	H	

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<i>HILARIA</i> (See <i>PLEURAPHIS</i>) (p. 1456)	GALLETA															
<i>H. jamesii</i>	James galleta grass	HIJA													M	
<i>H. rigida</i>	Big galleta	HIRI								M					M	
<i>HOLCUS</i> (p. 1458)	VELVET GRASS															
<i>H. lanatus*</i>	Common velvet grass	HOLA	FAC	3		I	I	M		M		M			M	
<i>H. mollis*</i>	Creeping velvet grass	HOMO	FACW	3		I	I	M		M		M			M	
<i>HORDEUM</i> (p. 1458)	BARLEY															
<i>H. brachyantherum</i>	Northern meadow barley	HOBR2	FACW	3	I	I		M	M						M	M
<i>H. brachyantherum</i> ssp. <i>californicum</i>	California meadow barley	HOBRC2		3						M	M	M	M	M	M	M
<i>H. jubatum</i> ssp. <i>jubatum</i>	Squirreltail barley	HOJUJ	FACW	2	R	R	R	H		H	H	H	H	H	H	H
<i>H. marinum</i> ssp. <i>gussoneanum*</i>	Mediterranean barley	HOMAG	FAC	2						M	M	M	M	M	M	
<i>H. murinum</i> ssp. <i>glaucum*</i>	Smooth barley	HOMUG	FAC	2						M	M	M	M	M	M	
<i>H. murinum</i> ssp. <i>leporinum*</i>	Hare barley	HOMUL		2						M	M	M	M			
<i>H. vulgare*</i>	Cultivated barley	HOVU		2						H	H	H	H		M	
<i>KOELARIA</i> (p. 1460)	JUNE GRASS															
<i>K. macrantha</i>	Prairie junegrass	KOMA						C		H		H		H		H
<i>LAMARCKIA</i> (p. 1460)	GOLDENTOP															
<i>L. aurea*</i>	Goldentop grass	LAAU	FACU	2							L	L	L	L		
<i>LEYMUS</i> (Now <i>ELYMUS</i>) (p. 1444)	WILDRYE															
<i>L. cinereus</i> (Now <i>ELYMUS cinereus</i>)	Great-basin wildrye	ELCI2	FAC	8				C	H	H						H
<i>L. triticoides</i> (Now <i>ELYMUS triticoides</i>)	Beardless wildrye	ELTR3	FAC	5				C	M		M	M	M		M	

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<i>LOLIUM</i> (Now <i>FESTUCA</i>) (p. 1451)	RYEGRASS															
<i>L. multiflorum*</i> (Now <i>FESTUCA perennis</i>)	ryegrass	FEPE	FAC	2							H	H	H			H
<i>L. perenne*</i> (Now <i>FESTUCA perennis</i>)	ryegrass	FEPE	FAC	2			R				H	H	H			H
<i>L. tenuifolium*</i> (Now <i>FESTUCA tenuifolia</i>)	Poison darnel ryegrass	FETE		2			R			L	L	L				
<i>MELICA</i> (p. 1462)	ONIONGRASS, MELIC															
<i>M. aristata</i>	Awned melic grass	MEAR3							M		M					M
<i>M. bulbosa</i>	Bulbosus melic grass	MEBU	FACU	4			C		H		H					H H
<i>M. californica</i>	California melic grass	MECA2							H	H		H				H
<i>M. fugax</i>	Little oniongrass	MEFU														H H
<i>M. geyeri</i>	Geyer's melic grass	MEGE							H		H					H
<i>M. imperfecta</i>	Little California melic grass	MEIM							H	H		H	H	H		
<i>M. spectabilis</i>	Purple oniongrass	MESP	FAC	4		C	C	H								H
<i>M. stricta</i>	Nodding melic grass	MEST							H		H		H			H H
<i>M. subulata</i>	Alaskan oniongrass	MESU		4			H									H H
<i>MUHLENBERGIA</i> (p. 1464)	MUHLY															
<i>M. andina</i>	Foxtail muhly	MUAN	FAC					H	H		H					H H
<i>M. asperifolia</i>	Scratchgrass muhly	MUAS	FACW	2		R	R	H			H		H			H H
<i>M. californica</i>	California muhly	MUCA	FACW					H		H	H					
<i>M. filiformis</i>	Pull-up muhly	MUF12	FACW	2	R	R	R	M	M							M M
<i>M. jonesii</i>	Jones's muhly	MUJO							H							H
<i>M. montana</i>	Mountain muhly	MUMO	UPL				C		H							H
<i>M. richardsonis</i>	Mat muhly	MURI	FAC	2			C	H	H		H					H H

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Botanical Name - Grasses (Page No. 2nd ed. Jepson)	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock								
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>M. rigens</i>	Calif. Deergrass	MIRI2	UPL	4	C	C	C	H			H	H	H	H	H	H
NASSELLA (Now STIPA) (p. 1490)	NEEDLEGRASS															
<i>N. cernua</i> (Now STIPA cernua)	Nodding needlegrass	STCE	UPL							H	H	H	H	H		
<i>N. lepida</i> (Now STIPA lepida)	Foothill needlegrass	STLE3	UPL							H	H	H	H	H		
<i>N. pulchra</i> (Now STIPA pulchra)	Calif. Purple needlegrass	STPU2	UPL							H	H	H	H	H		
PASCOPYRUM (Now ELYMUS) (p. 1444)	WHEATGRASS															
<i>P. smithii</i> (Now ELYMUS smithii)	Western wheatgrass	ELSM3	FACU	4			I									H
PASPALUM (p. 1471)	DALLIS GRASS															
<i>P. dilatatum</i> *	Dallisgrass	PADI3	FAC					M		M	M		M			
PHALARIS (p. 1472)	CANARY GRASS															
<i>P. aquatica</i> *	Harding grass	PHAQ	FACU	7	I	I	I		H	H	H	H	H	H	H	H
<i>P. angusta</i>	Timothy canary grass	PHAN2	FACW					H					H			H
<i>P. arundinacea</i>	Reed canary grass	PHAR3	FACW	7	C	C		H		H	H	H	H	H	H	H
<i>P. canariensis</i> *	Common canary grass	PHCA5	FACU							H	H	H	H			
<i>P. lemmonii</i>	Lemmon's canary grass	PHLE3	FACW					H		H	H	H				H
PHLEUM (p. 1475)	TIMOTHY															
<i>P. alpinum</i>	Alpine timothy	PHAL2	FAC	3	C	C		H	H		H					H
<i>P. pratense</i> *	Common timothy	PHPN3	FAC	3	I	I		H	H		H		H		H	H
PLEURAPHIS (Now HILARIA) (p. 1456)	GALLETA															
<i>P. jamesii</i> (Now HILARIA jamesii)	James' galleta grass	HIJA														H
<i>P. rigida</i> (Now HILARIA rigida)	Big galleta grass	HIRI									H					H

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
PLEUROPOGON (p. 1475)	SEMAPHORE GRASS															
<i>P. refractus</i>	Nodding Semaphore		OBL		I	I	I			M		M				
PIPTATHERUM (Now STIPA) (p. 1490)	SMILO															
<i>P. miliaceum*</i> (Now STIPA miliacea var. miliacea)	Smilo grass	STMIM								M	M	M	M	M	M	M
POA (p. 1476)	BLUE GRASS															
<i>P. annua*</i>	Annual bluegrass	POAN	FAC	2		R	R		H	H	H	H	H			
<i>P. bolanderi</i>	Bolander's bluegrass	POBO						H		H	H	H	H	H	H	H
<i>P. bulbosa*</i>	Bulbous bluegrass	POBU	FACU	2			R			H	H	H	H	H	H	H
<i>P. compressa*</i>	Canada bluegrass	POCO	FACU	2		I	I			H		H		H	H	H
<i>P. cusickii</i>	Cusick's bluegrass	POCU3	FAC	3		C	C	H						H	H	
<i>P. cusickii</i> ssp. <i>epilis</i>	Skyline bluegrass	POCUE2						H								H
<i>P. fendleriana</i>	Fendler's bluegrass	POFE	UPL						H							H
<i>P. fendleriana</i> ssp. <i>longiligula</i>	Long-tongue mutton-grass	POFEL						H		H						H
<i>P. glauca</i> ssp. <i>rupicola</i>	Timberline bluegrass	POGLR2						H								
<i>P. keckii</i>	Keck's bluegrass	POKE4						H								H
<i>P. leptocoma</i> ssp. <i>leptocoma</i>	Western bog bluegrass	POLEL	FACW	3	C	C	C	H	H							H
<i>P. lettermanii</i>	Letterman's bluegrass	POLE3							H							
<i>P. palustris</i>	Fowl bluegrass	POPA2	FAC	3	C	C	C	H		H						H
<i>P. pratensis</i> ssp. <i>pratensis*</i>	Kentucky bluegrass	POPRP	FAC	2		I		H	H	H	H		H		H	H
<i>P. pringlei</i>	Pringle's bluegrass	POPR2							H							H
<i>P. secunda</i>	Nevada bluegrass	POSE	FACU	2			C		H				H		H	H
<i>P. stebbinsii</i>	Stebbin's bluegrass	POST11	FACU	2		C	C	H								

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<i>P. wheeleri</i>	Wheeler's bluegrass	POWH2						H						H	H	
POLYPOGON (p. 1482)	BEARD GRASS															
<i>P. australis*</i>	Chilean beard grass	POAU3						L			L		L		L	
<i>P. maritimus*</i>	Mediterranean beard grass	POMA10						L			L		L		L	
<i>P. monspeliensis*</i>	Rabbitsfoot grass	POMO5	FACW	2		R	R	L			L	L	L	L	L	L
<i>P. viridis*</i>	Water beard grass	POVI9						L		L		L		L	L	L
PSEUDOROEGNERIA (Now ELYMUS) (p. 1444)	WHEATGRASS															
<i>P. spicata</i> ssp. <i>spicata</i> (Now ELYMUS <i>spicata</i>)	Bluebunch wheatgrass	ELSP3									H				H	
PTILAGROSTIS (Now STIPA) (p. 1490)	RICEGRASS															
<i>P. kingii</i> (Now STIPA <i>kingii</i>)	King's ricegrass	STKI	FACU	3	C	C	C	H								
PUCCINELLIA (p. 1483)	ALKALI GRASS															
<i>P. lemmonii</i>	Lemmon's alkali-grass	PULE	FAC					M						M		
<i>P. nuttalliana</i>	Nuttall's alkali-grass	PUNU2	FACW	4	C	C		M						M	M	
SCHEDONORUS (Now FESTUCA) (p. 1451)	FESCUE															
<i>S. arundinaceus*</i> (Now FESTUCA <i>arundinacea</i>)	Tall meadow fescue	FEAR3	FAC	4	I	I		H			H		H			
<i>S. pratensis*</i> (Now FESTUCA <i>pratensis</i>)	Meadow fescue	FEPR	FACU	4		I	I				H				H	
SPOROBOLUS (p. 1489)	DROPSEED															
<i>S. airoides</i>	Alkali sacaton	SPAI	FAC					H		H			H		H	
<i>S. cryptandrus</i>	Sand dropseed	SPCR	FACU								M				M	
STIPA Incl. ACNATHERUM, NASSELLA, PIP-TATHERUM, PTILAGROSTIS (p. 1490)	NEEDLEGRASS															
<i>S. cernua</i>	Nodding needlegrass	STCE	UPL							H	H		H	H		
<i>S. comata</i>	Needle and thread	STCO4	UPL						H	H					H	H

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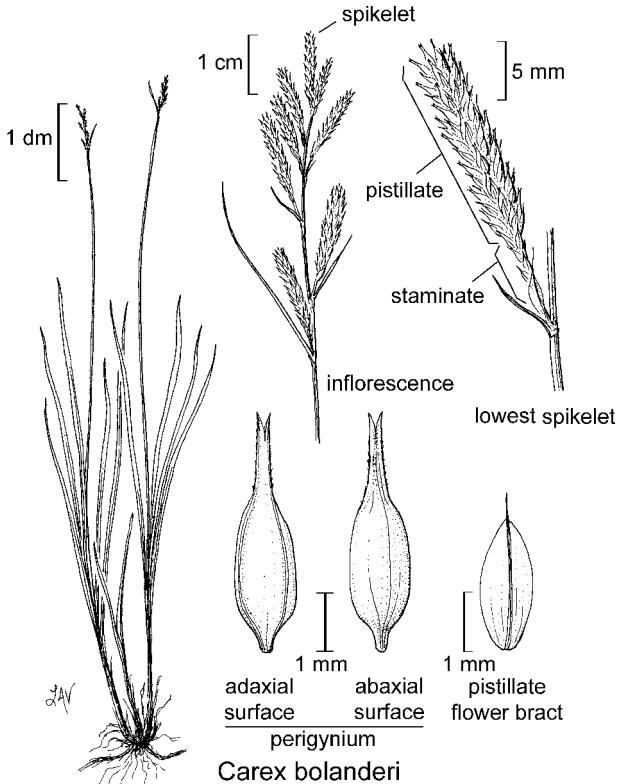
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<i>S. coronata</i>	Crested needlegrass	STCO5	UPL						H	H				H		
<i>S. hymenoides</i>	Sand ricegrass	STHY6	UPL						H						H	
<i>S. kingii</i>	King's ricegrass	STKI	FACU	2		C	C	H								
<i>S. lemmonii</i> and var.	Lemmon's needlegrass	STLE2	UPL	2			C	H	H	H	H		H	H	H	
<i>S. lepida</i>	Foothill needlegrass	STLE3	UPL					H	H	H	H	H				
<i>S. lettermanii</i>	Letterman's needlegrass	STLE4	UPL	2			C	H						H	H	
<i>S. nelsonii</i> var. <i>dorei</i>	Nelson's needlegrass	STNED	UPL	2			C	H						H	H	
<i>S. miliacea</i> var. <i>miliacea</i> *	Smilo grass	STMIM	UPL						M	M	M	M	M		M	
<i>S. occidentalis</i> and ssp.	Western needlegrass	STOC2	UPL	2		C	H	H						H	H	
<i>S. pinetorum</i>	Pine needlegrass	STPI2	UPL					H						H	H	
<i>S. pulchra</i>	Purple needlegrass	STPU2	UPL					H	H	H	H	H				
<i>S. speciosa</i>	Desert needlegrass	STSP3	UPL					H	H		H	H		H	H	
<i>S. thurberiana</i>	Thurber's needlegrass	STTH2	UPL					H	H					H	H	
TAENIATHERUM (Now ELYMUS) (p. 1444)	MEDUSA-HEAD															
<i>T. caput-medusae</i> * (Now ELYMUS <i>caput-medusae</i>)	Medusa-head	ELCA13	UPL						L	L	L	L	L	L		
TORREYOCHELOA (p. 1496)	FALSE MANNA GRASS															
<i>T. erecta</i>	Spiked false manna grass	TOER	OBL	7	C			H	H							H
<i>T. pallida</i> var. <i>pauciflora</i>	Weak manna grass	TOPAP3	OBL	7	C			H	H	H		H		H	H	
TRISETUM (p. 1497)	TRISETUM															
<i>T. canescens</i>	Tall trisetum	TRCA21	FACU	3		C	C			H					H	H
<i>T. cernuum</i>	Nodding false oat	TRCE2	FACU							H						H
<i>T. spicatum</i>	Spike trisetum	TRSP2	UPL	3		C	C	H	H		H				H	H

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<i>T. wolfii</i>	Wolf's false oats	TRWO3	FAC	3		C	C	H	H							H
VULPIA (Now FESTUCA) (p. 1451)	FESCUE															
V. bromoides* (Now FESTUCA bromoides)	Brome fescue	FEBR4	FACU	2						L		L		L		
V. microstachys (Now FESTUCA microstachys)	Reflexed annual fescue	FEMI2		2						M	M	M	M	M	M	
V. myuros* (Now FESTUCA myuros)	Rattail sixweeks grass	FEMY2	FACU	2						M	M	M	M	M	M	
V. octoflora* (Now FESTUCA octoflora)	Sixweeks grass	FEOC3	UPL	2						M	M	M	M	M	M	
VAHLODEA (See DESCHAMPSIA) (p. 1498)	MOUNTAIN HAIR GRASS															
V. atropurpurea	Mountain hair grass	VAAT2	FACW	6	C	C	C	H								H

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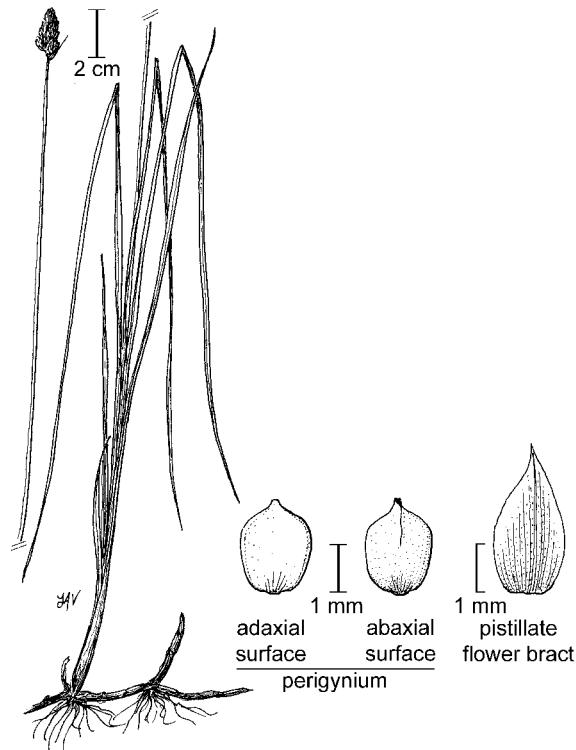


Carex bolanderi

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Forest Service, Pacific Southwest Region





Carex simulata

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AMPHISCIRPUS (SCIRPUS) (p. 1306)	NEVADA BULRUSH															
A. nevadensis (Formerly SCIRPUS nevadensis)	Nevada bulrush	AMNE3	OBL	9	C	C		L							L	
BULBOSTYLIS (p. 1308)	BEAKSEED															
B. capillaris	Thread-leaved beakseed	BUCA2	FAC		C	C										L
CAREX (p. 1308)	SEDGE															
C. abrupta	Abrupt-beaked sedge	CAAB2	FAC	6		C		H	H		H					H
C. alma	Sturdy sedge	CAAL7	OBL	6	C			H								
C. amplifolia	Big-leaf sedge	CAAM10	OBL	9	C			H			H					H
C. angustata	Narrow-leaved sedge	CAAN15	FACW	9	C	C		H	H		H					H
C. aquatilis	Water sedge	CAAQ	OBL	9	C			H	H		H					H
C. aquatilis var. aquatilis	Water sedge	CAAQA	OBL	9	C			H	H		H					H
C. arcta	Northern clustered sedge	CAAR2	OBL	6	C	C		H			H					
C. athrostachya	Long-bracted sedge	CAAT3	FACW	6	C	C			H		H					H H
C. aurea	Golden-fruit sedge	CAAU3	FACW	4	C	C		H	H							H H
C. barbaraee	Santa Barbara sedge	CABA4	FAC	9	C	C		H			H			H		
C. bolanderi	Bolander's sedge	CABO2	FAC	4	C	C					H					H
C. brainerdii	Brainerd's sedge	CABR7							H		H					H
C. breweri	Brewer's sedge	CABR12		8		C	C	H								H
C. canescens ssp. canescens	Silvery bog sedge	CACAC6	OBL	6	C	C		H		H						
C. capitata	Capitate sedge	CACA13	FACW	6	C	C		H								
C. cusickii	Cusick's sedge	CACU5	OBL	6	C	C		H			H					
C. deweyana ssp. leptopoda (Now C. leptopoda)	Slender-footed sedge	CALE24	FAC	6	C	C		H		H						H

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<i>C. densa</i>	Dense sedge	CADE8	OBL	6	C	C				H	H	H		H	H	
<i>C. diandra</i>	Lesser tussock sedge	CADI4	OBL	7	C			H								
<i>C. douglasii</i>	Douglas' sedge	CADO2	FAC	4			C		M		M				M	
<i>C. echinata</i>	Little prickly sedge	CAEC	OBL	6	C	C		M	M		M					
<i>C. echinata</i> ssp. <i>echinata</i>	Star sedge	CAECE	OBL	6	C	C		M		M						M
<i>C. echinata</i> ssp. <i>phyllomanica</i>	Coastal star sedge	CAECP	OBL	6						M						
<i>C. exsiccata</i>	Western inflated sedge	CAEX5	OBL	9	C			M								
<i>C. feta</i>	Green-sheath sedge	CAFE4	FACW	6		C	C	H	H		H		H		H	H
<i>C. filifolia</i>	Thread-leaved sedge	CAFI		5			C	H								
<i>C. fillifolia</i> var. <i>erostrata</i>	Short-hair sedge	CAFIE		5			C	H								
<i>C. fissuricola</i>	Cleft sedge	CAFI2	OBL	6	C			H	H							
<i>C. fracta</i>	Fragile-sheathed sedge	CAFR2	FAC	6		C	C	H	H		H					H
<i>C. geyeri</i>	Geyer's sedge	CAGE2		5			C	H	H		H				H	H
<i>C. gigas</i> (Now <i>C. scabriuscula</i>)	Siskiyou sedge	CASC14	FACW	6	C	C		H								
<i>C. heteroneura</i>	Variable-nerved sedge	CAHE8	FAC	6	C	C		H	H		H					H
<i>C. hoodii</i>	Hood's sedge	CAHO5	FACU	6		C	C	H	H		H					H
<i>C. illota</i>	Sheep sedge	CAIL	FACW	6	C	C		H	H		H					H
<i>C. integra</i>	Smooth-beak sedge	CAIN10	OBL	6		C	C	H	H		H				H	H
<i>C. interior</i>	Inland star sedge	CAIN11	OBL	6	C			H	H							
<i>C. jonesii</i>	Jones' sedge	CAJO	OBL	6	C	C		H	H		H					H
<i>C. lanuginosa</i> (Now <i>C. pellita</i>)	Woolly sedge	CAPE42	OBL	9	C	C		H	H		H				H	H
<i>C. lemmontii</i>	Lemmon's sedge	CALE7	OBL	6	C	C		H	H		H					H
<i>C. lenticularis</i> and ssp.	Lens sedge	CALE8	OBL	6	C	C		H	H		H					

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<i>C. leporinella</i>	Sierra hare sedge	CALE9	OBL	6		C		H	H							
<i>C. leptopoda</i> (See <i>C. deweyana</i>)	Slender-footed sedge	CALE24	FAC	6	C	C			H		H					H
<i>C. limosa</i>	Mud sedge	CALI7	OBL	6	C			H	H							H
<i>C. luzulifolia</i>	Luzula-leaved sedge	CALU6	OBL	6	C	C			H							H
<i>C. luzulina</i>	Woodrush sedge	CALU7	OBL	6	C	C		H	H		H					
<i>C. mariposana</i>	Mariposa sedge	CAMA13	FACW	6	C	C	C	H	H							H
<i>C. microptera</i>	Small-winged sedge	CAMI7	FACU	6	C	C	C	H	H		H					H H
<i>C. multicaulis</i>	Many-stemmed sedge	CAMU5		6					H		H					H H
<i>C. multicostata</i>	Many-ribbed sedge	CAMU6		6				C	H	H		H				H
<i>C. nebrascensis</i>	Nebraska sedge	CANE2	OBL	9	C	C		H	H		H					H H
<i>C. nervina</i>	Sierra nerved sedge	CANE5	OBL	7	C	C		H	H		H					
<i>C. nigricans</i>	Black alpine sedge	CANI2	FACW	9	C	C			H							H
<i>C. nudata</i>	Torrent sedge	CANU5	OBL	7				H			H		H			
<i>C. pachystachya</i>	Chamisso's sedge	CAPA14	FAC	6			C		H		H					
<i>C. pellita</i> (See <i>C. lanuginosa</i>)	Woolly sedge	CAPE42	OBL	9	C	C		H	H		H					H H
<i>C. phaeocephala</i>	Dunhead sedge	CAPH2	UPL	6					H		H					H
<i>C. praengracilis</i>	Clustered field sedge	CAPR5	FACW	9		C	C		H	H	H		H		H H	
<i>C. praticola</i>	Northern meadow sedge	CAPR7	FACW	6	C	C		H	H		H					H
<i>C. preslii</i>	Presl's sedge	CAPR8	FACU	6			C	H	H							H
<i>C. raynoldssii</i>	Raynold's sedge	CARA6	FACU	6		C		H	H							H
<i>C. rossii</i>	Ross' sedge	CARO5	UPL	6			C		M		M					M M
<i>C. sartwelliana</i>	Sartwell's sedge	CASA7	OBL	6	C			H		H						H
<i>C. scabriuscula</i> (See <i>C. gigas</i>)	Siskiyou sedge	CASC14	FACW	6	C	C		H								

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>C. scirpoidea</i> ssp. <i>pseudoscirpoidea</i>	Western single-spike sedge	CASCP2	FAC	9				H	H							
<i>C. scopulorum</i> var. <i>bracteosa</i>	Holm's Rocky Mtn. sedge	CASCB	OBL	9	C	C		H	H		H					H
<i>C. senta</i>	Western rough sedge	CASE	OBL	9	C	C		H	H		H					H
<i>C. sheldonii</i>	Sheldon's sedge	CASH	OBL	9	C			H								H
<i>C. simulata</i>	Short-beak sedge	CASI2	OBL	9	C	C		H		H						H
<i>C. spectabilis</i>	Showy sedge	CASP5	FACW	6	C	C		H	H							H
<i>C. straminiformis</i>	Mount Shasta sedge	CAST7		6				C	H		H					H
<i>C. subfuscata</i>	Rusty sedge	CASU6	FAC	6	C	C	C	H	H		H		H			H
<i>C. subnigricans</i>	Dark alpine sedge	CASU7	FAC	9	C	C	C	H								H
<i>C. tumulicola</i>	Foothill sedge	CATU3	FACU	6							M		M			
<i>C. unilateralis</i>	One-sided sedge	CAUN3	FACW	6	C	C		H								
<i>C. utriculata</i>	Beaked sedge	CAUT	OBL	9	C			M	M		M					M M
<i>C. vallicola</i>	Valley sedge	CAVA3	FAC	5	C	C							H			H H
<i>C. vernacula</i>	Foetid sedge	CAVE5	FAC	9	C	C		H								
<i>C. vesicaria</i>	Inflated sedge	CAVE6	OBL	9	C	C		M	M	M	M					M M
<i>C. whitneyi</i>	Whitney's sedge	CAWH		6			C	H	H							H H
<i>CYPERUS</i> (p. 1340)	FLATSEDGE															
<i>C. eragrostis</i>	Tall flatsedge	CYER	FACW	9	C	C					M	M	M			
<i>C. niger</i>	Black flatsedge	CYNI2	FACW	9	C	C				M	M		M			
<i>C. squarrosus</i>	Squarrose umbrella sedge	CYSQ	OBL		R	R		L			L		L			L
<i>ELEOCHARIS</i> (p. 1343)	SPIKERUSH															
<i>E. acicularis</i> (perennial)	Needle spikerush	ELAC	OBL	4	I	I		M	M		M					M

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<i>E. bella</i> (annual)	Beautiful spikerush	ELBE	FACW	2	R	R		M	M		M				M	
<i>E. bolanderi</i>	Bolander's spikerush	ELBO	FACW	5	C	C		M			M		M		M	M
<i>E. engelmannii</i>	Engelmann's spikerush	ELEN	OBL	2	R			M			M				M	
<i>E. macrostachya</i>	Long-stemmed spikerush	EMA5	OBL	5	I	I		M			M		M		M	
<i>E. montevidensis</i>	Dombeys spikerush	ELMO2	FACW	5	I	I		M			M		M		M	
<i>E. obtusa</i>	Obtuse spikerush	ELOB2	OBL	2	R			M			M				M	
<i>E. pachycarpa*</i>	Black sand spikerush	ELPA	OBL	5	I			M			M		M		M	M
<i>E. palustris</i>	Pale spikerush	ELPA3	OBL	5	C			M	M		M				M	
<i>E. parishii</i>	Parish's spikerush	ELPA4	FACW	5		C		M			M		M		M	M
<i>E. quinqueflora</i> (Formerly <i>E. pauciflora</i>)	Few-flowered spikerush	ELQU2	OBL	5	I	I		M	M		M				M	
<i>ERIOPHORUM</i> (p. 1346)	COTTON GRASS															
<i>E. crinigerum</i>	Sierra cottongrass	ERCR4	OBL	5	C	C		M	M		M					M
<i>E. gracile</i>	Slender cottongrass	ERGR8	OBL	7	C			M	M		M					
<i>JUNCUS</i> (p. 1361)	RUSH															
<i>J. acuminatus</i>	Taper-tipped rush	JUAC	OBL	6	C			L			L					
<i>J. balticus</i>	Baltic rush	JUBA	OBL	9	C	C		M			M		M		M	M
<i>J. brachyphyllus</i>	Shortleaved rush	JUBR3	FAC	6	C	C		L							L	
<i>J. bufonius</i>	Common toad rush	JUBU	FACW	2	R	R		L	L		L	L	L		L	L
<i>J. chlorocephalus</i>	Green-head rush	JUCH	FACW	9	C	C		M	M							M
<i>J. confusus</i>	Colorado rush	JUCO2	FAC	6		C		M	M		M				M	M
<i>J. covillei</i>	Coville's rush	JUCO5	FACW	8	C	C		M			M					M
<i>J. cyperoides*</i>	Bolivian rush	JUCY			I			M								M
<i>J. drummondii</i>	Drummond's rush	JUDR	FACW	6	C	C	C	M								M

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<i>J. dubius</i>	Mariposa rush	JUDU	FACW	9	C	C		H		H		H			H	
<i>J. effusus</i> and ssp.	Common soft rush	JUEF	FACW	9	C	C		H	H		H		H			H
<i>J. ensifolius</i>	Sword-leaf rush	JUEN	FACW	7	C	C		H	H		H					H H
<i>J. howellii</i>	Howell's rush	JUHO			C	C		H	H							
<i>J. longistylis</i>	Long-styled rush	JULO	FACW	7	C	C		H	H		H					H
<i>J. macrandus</i>	Long-anthered rush	JUMA2	OBL	7	C	C		H	H		H					H
<i>J. mertensianus</i>	Merten's rush	JUME3	OBL	9	C	C		H	H		H					H H
<i>J. mexicanus</i>	Mexican rush	JUME4	OBL	9	C			H	H		H					M M
<i>J. nevadensis</i>	Sierra Nevada rush	JUNE	FACW	7	C	C		H	H		H					H H
<i>J. orthophyllus</i>	Straight-leaved rush	JUOR	FACW	5	C	C		H	H		H					H H
<i>J. oxymeris</i>	Pointed rush	JUOX	FACW	7	C	C		H	H		H					H
<i>J. parryi</i>	Parry's rush	JUPA	FAC	6			C		H		H					H
<i>J. patens</i>	Spreading rush	JUPA2	FACW	7	C	C		M			M					
<i>J. phaeocephalus</i>	Brown-headed rush	JUPH	FACW	9	C	C		H			H					
<i>J. saximontanus</i>	Rocky Mountain rush	JUSA	FACW	9	C	C		H	H		H					H
<i>J. tenuis</i>	Poverty rush	JUTE	FAC	4		C		M			M					M
<i>J. xiphiooides</i>	Iris-leaved rush	JUXI	OBL	9	C	C		H			H					
LUZULA (p. 1374)	WOODRUSH															
<i>L. comosa</i>	Common woodrush	LUCO6	FAC	6	C	C		H	H		H		H		H	H H
<i>L. divaricata</i>	Forked woodrush	LUDI						H	H							H
<i>L. oreastera</i>	Alpine woodrush	LUOR4		6	C	C		H	H							
<i>L. parviflora</i> and ssp.	Small-flowered woodrush	LUPA4	FAC			C		H	H		H					H H

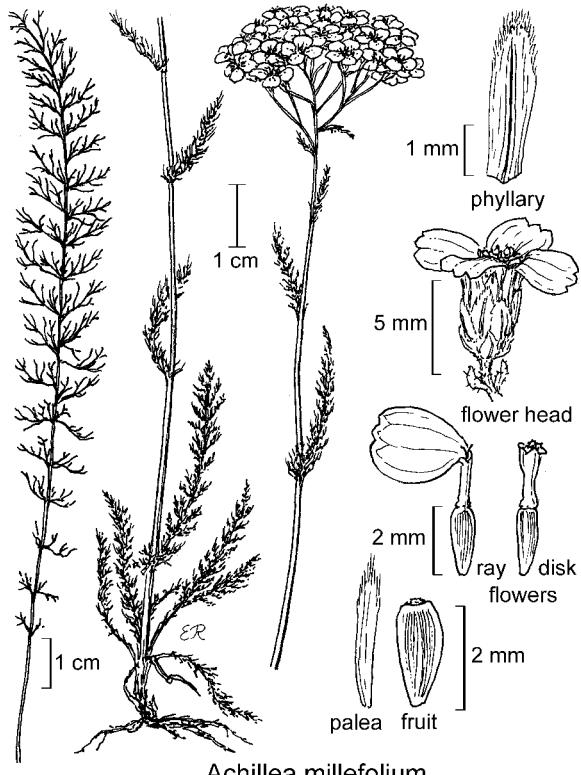
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				Meadow				Resource Value Rating for Livestock									
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<i>L. spicata</i>	Spicate woodrush	LUSP4	FACU	6					H	H						H	H
<i>L. subcongesta</i>	Donner woodrush	LUSU7	FACW	6		C			H	H							
SCHOENOPLECTUS (See SCIRPUS) (p. 1350)	NAKED-STEMMED BULRUSH																
<i>S. acutus</i> var. <i>occidentalis</i>	Common Tule	SCACO4	OBL	9	C				L		L						
<i>S. americanus</i>	Olney's three-square bulrush	SCAM6	OBL	9	C				L		L	L					
SCIRPUS (p. 1352)	BULRUSH, TULE																
<i>S. acutus</i> var. <i>occidentalis</i> (Now SCHOENOPLECTUS <i>acutus</i> var. <i>occidentalis</i>) (p. 1350)	Common Tule	SCACO2	OBL	9	C				L		L						
<i>S. americanus</i> (Now SCHOENOPLECTUS <i>americanus</i>)	Olney's three-square bulrush	SCAM6	OBL	9	C				L		L						
<i>S. clementis</i> (Now TRICHOPHORUM <i>clementis</i>) (p. 1353)	Yosemite bulrush	TRCL3	FAC	6	C	C	C	M	M								
<i>S. congonii</i>	Congdon's bulrush	SCCO	FACW	9	C	C			H	H	H						H
<i>S. diffusus</i>	Diffuse bulrush	SCDI	OBL	9	C				H	H							
<i>S. microcarpus</i>	Panicked bulrush	SCMI2	OBL	9	C	C			H	H	H		H		H	H	
<i>S. nevadensis</i> (Now AMPHISCIRPUS <i>nevadensis</i>) (p. 1306)	Nevada bulrush	AMNE3	OBL	9	C				L								L
<i>S. pendulus</i>	Pendulus bulrush	SCPE4	OBL	7					L								
TRICHOPHORUM (See SCIRPUS) (p. 1353)	LEAFLESS BULRUSH																
<i>T. clementis</i>	Yosemite bulrush	TRCL3	FAC	6	C	C			M	M							
TRIGLOCHIN (p. 1375)	ARROW-GRASS																
<i>T. palustris</i>	Marsh arrow grass	TRPA	OBL	5	C				L	L							
<i>T. concinna</i> (PO)	Arrow grass	TRCO19	OBL	5		C			L	L						L	

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<i>TYPHA</i> (p. 1517)	CATTAIL															
<i>T. angustifolia*</i>	Narrow-leaved cattail	TYAN	OBL	I				L			L	L	L			L
<i>T. domingensis</i>	Southern cattail	TYDO	OBL					L			L	L	L			L
<i>T. latifolia</i>	Broad-leaf cattail	TYLA	OBL	9	C			L			L	L	L		L	L

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Achillea millefolium

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Oreostemma alpinum var. *andersonii*

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
ACHILLEA (p. 230)	YARROW															
<i>A. millefolium</i>	Common yarrow	ACMI2	FACU	3	I	I	I	M	M	M	M		M	M	M	M
ACMISPON (N-fixing) (See LOTUS) (p. 723)	DEERVETCH, DEER-WEED															
<i>A. argophyllum</i> and var.	Silver bird's-foot trefoil	ACAR	UPL							H	H		H	H	H	
<i>A. grandiflorus</i> and var.	Large-flowered trefoil	ACGR	UPL					M		M		M	M		M	
<i>A. brachycarpus</i>	Short-pod deervetch	ACBR	UPL							M	M	M		M		
<i>A. denticulatus</i>	Riverbar lotus	ACDE	UPL			R		H		H		H		H		
<i>A. nevadensis</i>	Nevada deervetch	ACNE		2		I				H		H		H	H	H
<i>A. americanus</i> var. <i>americanus</i>	American bird's-foot trefoil	ACAMA	FACU	2				R	M		M	M	M	M	M	M
<i>A. maritimus</i> var. <i>maritimus</i>	Coastal bird's-foot trefoil	ACMAM								H	H		H		H	
<i>A. parviflorus</i>	Small-flowered deer-vetch	ACPA		2						H	H		H			H
<i>A. strigosus</i>	Strigose deervetch	ACST		2						M	M		M	M	M	
<i>A. wrangelianus</i>	California calf lotus	ACWR		2						M	M	M	M	M	M	
ACONOGONON (See POLYGONUM) (p. 1076)	KNOTWEED															
<i>A. davisiae</i>	Davis's knotweed	ACDA		3					L		L					L
<i>A. phytolaccifolium</i>	Alpine knotweed	ACPH2	FAC	3					L		L					L L
ACONITUM (p. 1131)	MONKSHOOD															
<i>A. columbianum</i> (PO)	Columbian monkshood	ACCO4	FACW	4	C	C		L	L		L					L L
ACTAEA (p. 1132)	BANEERRY															
<i>A. rubra</i> (PO)	Red baneberry	ACRU2	FACU	4				L	L		L					L

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<i>ADENOCAULON</i> (p. 231)	TRAIL PLANT															
<i>A. bicolor</i>	American trail plant	ADBI						L		L						L
<i>AGASTACHE</i> (p. 837)	HORSEMINT															
<i>A. parvifolia</i>	Small-leaved horsemint	AGPA2						M		M		M		M	M	M
<i>A. urticifolia</i>	Nettle-leaf horsemint	AGUR	FACU	2	I		M	M		M		M				M
<i>AGO SERIS</i> (p. 232)	AGOSERIS															
<i>A. aurantiaca</i> var. <i>aurantiaca</i>	Orange-flowered agoseris	AGAUA	FACU	2	R	R	M	M		M						M M
<i>A. glauca</i> var. <i>glauca</i>	Glaucous agoseris	AGGLG	FAC	2	R	R	H	H								H H
<i>A. grandiflora</i>	Large-flowered agoseris	AGGR									H	H	H			H H
<i>A. heterophylla</i>	Annual agoseris	AGHE2									H	H	H			H H
<i>A. monticola</i> (Formerly <i>A. glauca</i> var. <i>monticola</i>)	Sierra Nevada agoseris	AGMO5	UPL	2			H	H								H H
<i>A. parviflora</i> (Formerly <i>A. glauca</i> var. <i>laciniata</i>)	Sagebrush agoseris	AGPA14	UPL	2		R	M	M				M		M	M	M M
<i>A. retorsa</i>	Spear-leaved agoseris	AGRE								M		M		M		M M
<i>ALLIUM</i> (p. 1290)	WILD ONION															
<i>A. validum</i>	Pacific Mountain onion	ALVA	OBL	4	C		M	M		M						
All others	Wild onion			3	I	I	L	L	L	L	L	L	L	L	L L	
<i>AMARANTHUS</i> (p. 166)	PIGWEED, AMARANTH															
<i>A. albus</i> *	Tumbleweed	AMAL	FACU	2						L	L	L				L
<i>A. blitoides</i>	Procumbent pigweed	AMBL	FACW	2						L	L					L
<i>A. californicus</i>	California amaranth	AMCA	FACW	2			L			L	L					L L
<i>AMBROSIA</i> (p. 238)	RAGWEED, BURSAGE															
<i>A. acanthicarpa</i>	Annual bursage	AMAC2					L		L	L	L	L			L	

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<i>A. psilostachya</i>	Western ragweed	AMPS	FACU	3				R	L		L	L		L	L	
AMSINCKIA (PO) (p. 453)	FIDDLENECK															
AMSINCKIA sp. (PO)				2							L	L	L	L	L	
ANAGALLIS Fam. MYRSINACEAE from PRIMULACEAE (p. 912)	PIMPERNEL															
<i>A. arvensis*</i>	scarlet pimpernel	ANAR	FAC							L	L					
ANAPHALIS (p. 240)	EVERLASTING															
<i>A. margaritacea</i>	Western pearly everlasting	ANMA	FACU						L		L		L		L	L
ANEMONE (PO) (p. 1132)	WIND FLOWER, ANEMONE															
<i>A. deltoidea</i>	Columbia windflower	ANDE3		2							L		L			L
<i>A. drummondii</i>	Drummond's windflower	ANDR		2						L	L					L
<i>A. multifida</i> var. <i>multifida</i>	Cut-leaf anemone	ANMUM		2						L						L
<i>A. occidentalis</i>	Western pasque flower	ANOC6	0	2						M						M
<i>A. oregana</i> var. <i>oregana</i>	Oregon windflower	ANORO	FACU	2							L					L
ANEMOPSIS (p. 155)	YERBA MANSA															
<i>A. californica</i>	Yerba mansa	ANCA10	OBL	4	I				L		L					L
ANGELICA (p. 174)	ANGELICA															
<i>A. arguta</i>	Pacific angelica	ANAR3	FACW	4					L							L
<i>A. breweri</i>	Brewer's angelica	ANBR5							L	L						L
<i>A. callii</i>	Call's angelica	ANCA13		4					L							L
<i>A. genuflexa</i>	Kneeling angelica	ANGE2	FACW	4					L		L					L
<i>A. lineariloba</i>	Poison angelica	ANLI2								L						L

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<i>A. tomentosa</i>	Woolly angelica	ANTO								L			L		L
ANTENNARIA (p. 242)	PUSSYTOES														
<i>A. argentea</i>	Silver pussytoes	ANAR5								L				L	L
<i>A. corymbosa</i>	Flat-top pussytoes	ANCO	FAC	3	I	I		L	L						L
<i>A. dimorpha</i>	Low pussytoes	ANDI2		3			I		L		L			L	L
<i>A. geyeri</i>	Geyer's pussytoes	ANGE3		3			I		L		L		L		L
<i>A. luzuloides</i>	Rush pussytoes	ANLU2						L							L
<i>A. media</i>	Alpine pussytoes	ANME2	FAC	3			I		L		L				
<i>A. pulchella</i>	Beautiful pussytoes	ANPU8	FAC	3			I	L	L						
<i>A. rosea</i>	Rosy pussytoes	ANRO2		3	I	I	I		L		L			L	L
APOCYNUM (PO) (p. 203)	HEMP, DOGBANE														
<i>A. androsaemifolium</i>	Bitter dogbane	APAN2	FACU	3						L	L		L	L	L
<i>A. cannabinum</i> (PO)	California hemp dogbane	APCA	FAC	3				L		L		L		L	L
AQUILEGIA (p. 1133)	COLUMBINE														
<i>A. eximia</i>	Van Houtte's columbine	AQEX	OBL	3				L		L		L		L	L
<i>A. formosa</i>	Western crimson columbine	AQFO	FAC	3	I	I		L	L		L		L	L	L
<i>A. pubescens</i>	Coville's columbine	AQPU						L							
ARABIS (Most now BOECHERA) (p. 520)	ROCK CRESS														
ARABIS sp.	Rock cress								L		L	L	L		L
ARENARIA (p. 605)	SANDWORT														
<i>A. congesta</i> (Now EREMOGONE congesta and var.) (p. 607)	Ballhead sandwort	ERCO24						L						L	L
<i>A. serpyllifolia</i> var. <i>serpyllifolia</i> *	Thyme-leaf sandwort	ARSES	FACU	2							L	L	L		L

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<i>ARGEMONE</i> (p. 980)	PRICKLY POPPY															
<i>A. corymbosa</i>	Mohave prickly poppy	ARCO6													L	
<i>A. munita</i>	Chicalote	ARMU							L		L			L	L	
<i>ARNICA</i> (p. 246)	ARNICA															
<i>A. chamissonis</i>	Chamisso's arnica	ARCH3	FACW	3	I	I		M	M		M				M	M
<i>A. cordifolia</i>	Heartleaf arnica	ARCO9							L		M				M	M
<i>A. discoidea</i>	Rayless arnica	ARDI6								L		L	L	L		
<i>A. lanceolata</i> ssp. <i>prima</i>	Clasping arnica	ARLAP	FACW	3	I	I		M	M							M
<i>A. latifolia</i>	Broad-leaf arnica	ARLA8	FAC	3		I			M						M	M
<i>A. longifolia</i>	Spear-leaf arnica	ARLO6	FACW	3	I	I		M	M		M				M	M
<i>A. mollis</i>	Hairy arnica	ARMO4	FAC	3		I		M	M							
<i>A. nevadensis</i>	Sierra Nevada arnica	ARNE3		3	I	I		M	M						M	
<i>A. parryi</i>	Nodding arnica	ARPA13		3		I	I	L								L
<i>ARTEMISIA</i> (p. 250)	MUGWORT, WORM-WOOD															
<i>A. douglasiana</i>	Douglas's sagewort	ARDO3	FACW	3		I	I	L			L				L	L
<i>A. drununculus</i>	Wild tarragon	ARDR4		3		I	I			L	L					L
<i>A. ludoviciana</i> and ssp.	Silver wormwood	ARLU	FACU	3		I	I	L		L	L			L	L	L
<i>A. norvegica</i> ssp. <i>saxatilis</i>	Alpine sagewort	ARNOS4	FACU	3			I		L		L					
<i>A. suksdorffii</i>	Coast mugwort	ARSU4	FACU	3			I			L	L					
<i>ASCLEPIAS</i> (PO) (p. 203)	MILKWEED															
<i>A. californica</i>	California milkweed	ASCA3						L		L	L	L	L	L	L	L
<i>A. cordifolia</i>	Purple milkweed	ASCO								L		L	L	L		

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<i>A. fascicularis</i> (PO)	Narrow-leaved milkweed	ASFA	FAC	3						L	L	L	L			
ASTER (No longer in Jepson)	ASTER															
<i>A. alpinus</i> ssp. <i>andersonii</i> (Now <i>OREOSTEMMA alpinum</i> ssp. <i>andersonii</i>) (p. 392)	Anderson's Mtn. crown	ORALA3	FAC	3	R	R		M	M		M					M
<i>A. ascendens</i> (Now <i>SYMPHYOTRICHUM ascendens</i>) (p. 428)	Western American aster	SYAS3	FACU	3		I	I	M			M				M	M
<i>A. campestris</i> (Now <i>SYMPHYOTRICHUM campestre</i>)	Western meadow aster	SYCA3		3		I	I	M							M	
<i>A. breweri</i> (Now <i>EUCEPHALUS breweri</i>) (p. 326)	Brewer's golden aster	EUBR12						M	M							M
<i>A. chilensis</i> (Now <i>SYMPHYOTRICHUM chilense</i>)	Common Pacific aster	SYCH4	FAC	3		I		M		M	M	M				
<i>A. foliaceus</i> (Now <i>SYMPHYOTRICHUM foliaceum</i>)	Alpine leafy-bract aster	SYFO2	FACU	3		I	I	M	M		M					M
<i>A. integrifolius</i> (Now <i>EURYBIA integrifolia</i>) (p. 330)	Entire-leaf aster	EUIN9		3			I	M								M
<i>A. ledophyllus</i> (Now <i>EUCEPHALUS ledophyllus</i> var. <i>covillei</i>)	Cascade aster	EULEC		3		I				M						M
<i>A. occidentalis</i> (Now <i>SYMPHYOTRICHUM spathulatum</i>)	Western mountain aster	SYSP	FAC	3		I	I	M	M		M				M	M
<i>A. oregonensis</i> (Now <i>SERICOCARPUS oregonensis</i>) (p. 420)	Oregon white-topped aster	SEOR6								M						M
<i>A. peirsonii</i> (Now <i>OREOSTEMMA peirsonii</i>)	Peirson's aster	ORPE4		3			I	M	M							M
ASTRAGALUS (N-fixing) (PO) (p. 729)	LOCOWEED MILKVETCH															
ASTRAGALUS sp. (PO)							I	L	L	L	L	L		L	L	
ASYNEUMA (See CAMPANULA) (p. 588)	HAREBELL															
<i>A. prenanthoides</i>	Western harebell	ASPR10		3						L						L

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BALSAMORHIZA (p. 257)	BALSAMROOT															
<i>B. deltoidea</i>	Deltoid balsamroot	BADE2										M	M	M		M L
<i>B. hirsuta</i>	Hairy balsamroot	BAHI		3			I									M M
<i>B. hookeri</i>	Hooker's balsamroot	BAHO														M M
<i>B. lanata</i>	Woolly balsamroot	BALA												M		
<i>B. sagittata</i>	Arrow-leaved balsamroot	BASA3							M					M	M	M
<i>B. serrata</i>	Serrated balsamroot	BASE2												M	M	
BERULA (p. 176)	CUTLEAF WATER PARSNIP															
<i>B. erecta</i>	Cutleaf water parsnip	BEER	OBL	5	I			M								
BIDENS (p. 260)	STICKTIGHT															
<i>B. cernua</i>	Nodding bur-marigold	BICE	OBL	2				L			L					L
<i>B. frondosa</i>	Sticktight	BIFR	FACW	2				L			L					L
BISTORTA (See POLYGONUM) (p. 1077)	BISTORT															
<i>B. bistortoides</i>	Western bistort	BIBI5	FACW	4	I	I		L	L		L					
BOECHERA (See ARABIS) (p. 521)	ROCK CRESS															
BOECHERA sp.	Rock cress								L		L	L	L		L	
BOTRYCHIUM (p. 120)	MOONWORT, GRAPE-FERN															
<i>B. ascendens</i>	Trianglelobe moonwort	BOAS2	FACU	2	I	I		L	L							L
<i>B. crenulatum</i>	Scalloped moonwort	BOCR	FACW	2	I	I		L	L		L					L
<i>B. campestre</i> var. <i>lineare</i> (Formerly <i>B. lineare</i>)	Narrowleaf moonwort	BOLI7						L	L							
<i>B. neoulnaria</i> (Formerly <i>B. lunaria</i>)	Common moonwort	BOLU	FAC	2	I	I		L	L							
<i>B. minganense</i>	Mingan moonwort	BOMI						L	L							L

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<i>B. montanum</i>	Mountain moonwort	BOMO						L								L
<i>B. multifidum</i> (Now <i>SCEPTRIDIUM multifidum</i>)	Leather grapefern	SCMU11	FAC	2	I	I		L								L
<i>B. pedunculosum</i>	Stalked moonwort	BOPE4						L								L
<i>B. simplex</i> and var.	Little grapefern	BOSI	FAC	2	I	I		L	L		L					
BOYKINIA (p. 1235)	BOYKINIA															
<i>B. major</i>	Large boykinia	BOMA3	FACW	4	I	I		L			L					L
<i>B. occidentalis</i>	Western boykinia	BOOC2	FAC	4	I	I		L			L					L
<i>B. rotundifolia</i>	Round-leaf boykinia	BORO3	FACW	4	I	I		L			L					L
BRASSICA (p. 531)	MUSTARD															
<i>B. nigra</i> *	Common black mustard	BRNI		2		R	R			M	M	M	M	M	M	
<i>B. rapa</i> *	Common yellow mustard	BRRA	FACU	2		R	R			M	M	M	M	M	M	
<i>BRODIAEA</i> (Also see <i>DICHELOSTEMMA</i> and <i>TRITELEIA</i>) Fam. <i>THEMIDACEAE</i> from <i>LILIACEAE</i> (p. 1508)	BRODIAEA															
<i>B. coronaria</i>	Crown brodiaea	BRCO3	FACW	3	I	I				L	L	L	L			
<i>B. elegans</i> ssp. <i>elegans</i>	Harvest brodiaea	BREL	FACU	3	I	I				M	M	M	M			M
<i>B. filifolia</i>	Thread-leaf brodiaea	BRFI	FAC							M	M					
<i>B. jolonensis</i>	Chaparral cluster lily	BRJO								M	M	M				
<i>B. minor</i> (Formerly <i>B. purdyi</i>)	Small brodiaea	BRMI3			I	I		M			M	M	M			
<i>B. sierrae</i>	Sierra foothills brodiaea	BRSI		3			I						M	M		
<i>CALANDRINIA</i> Fam: <i>MONTIACEAE</i> from <i>PORTULACACEAE</i> (p. 901)	REDMAIDS															
<i>C. breweri</i>	Brewer's redmaids	CABR3		2						L	L		L	L		
<i>C. ciliata</i>	Fringed redmaids	CACI2	FACU	2								L	L	L		

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CALOCHORTUS (p. 1378)	MARIPOSA LILY															
<i>C. albus</i>	White globe lily	CAAL2								H	H		H	H		
<i>C. amabilis</i>	Diogenes' lantern	CAAM3								H	H		H	H		
<i>C. amoenus</i>	Purple globe lily	CAAM5											H			
<i>C. coeruleus</i>	Beavertail grass	CACO3											L			L
<i>C. invenustus</i>	Plain Mariposa lily	CAIN3							H		H					H
<i>C. longibarbus</i> var. <i>longibarbus</i>	Long-hair star tulip	CALOL	FAC	2		C	I	H								H
<i>C. leichtlinii</i>	Leichtlin's Mariposa lily	CALE3												H		H
<i>C. luteus</i>	Yellow mariposa lily	CALU9										H	H			H
<i>C. minimus</i>	Sierra Mariposa lily	CAMI	FAC	2				H	H				H			H
<i>C. nudus</i>	Naked Mariposa lily	CANU2	FAC	2								L	L	L		L
<i>C. splendens</i>	Lilac Mariposa lily	CASP										H	H	H		H
<i>C. venustus</i>	Butterfly Mariposa lily	CAVE3										H	H	H		H
CALTHA (p. 1134)	MARSH MARIGOLD															
<i>C. leptosepala</i>	Alpine white marsh marigold	CALE4	OBL	4	I	I		L	L							L
<i>C. palustris</i>	Yellow marsh marigold	CAPA5	OBL	4	I	I		L	L		L					L
CALYSTEGIA (p. 655)	MORNING-GLORY															
CALYSTEGIA spp.										L	L	L	L	L	L	L
CALYPTRIDIUM Fam. MONTIACEAE from PORTULACACEAE (p. 901)	PUSSYPAWS															
<i>C. monospermum</i>	One-seed pussypaws	CAMO6							L		L		L		L	L
<i>C. quadrifolium</i>	Four-petaled pussypaws	CAQU								L			L			
<i>C. roseum</i>	Rosy pussypaws	CARO	FACU	2				R	L	L						L

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<i>C. umbellatum</i>	Common pussypaws	CAUM2	2		R	R	L	L		L					L	L
CAMASSIA Fam. AGAVACEAE from LILIACEAE (p. 1284)	CAMAS															
<i>C. leichtlinii</i> ssp. <i>suksdorffii</i> (Formerly <i>C. quamash</i> ssp. <i>quamash</i>)	Leichtlin's large camas	CALES2	FACW	5	I	I		L			L					
<i>C. quamash</i> ssp. <i>breviflora</i>	Common Blue camas	CAQUB2	FACW	5	I	I		L		L					L	L
CAMISSONIA (p. 926)	SUN CUP															
CAMISSONIA spp.									L	L	L	L	L	L	L	L
CAMPANULA (p. 588)	HAREBELL															
<i>C. prenanthoides</i> (Now ASYNEUMA <i>prenanthoides</i>)	Western harebell	ASPR10		3							L					L
<i>C. rotundifolia</i>	Round-leaf bell flower	CARO2	FACU	3				I	L		L					L
<i>C. scouleri</i>	Scouler's harebell	CASC7	UPL	3				I	L		L					L
CAPSELLA (p. 534)	SHEPHERD'S PURSE															
<i>C. bursa-pastoris</i> *	Shepherd's purse	CABU2	FACU					R		L	L	L	L	L	L	L
CARDAMINE (p. 534)	BITTERCRESS															
<i>C. breweri</i>	Brewer's bittercress	CABR6	FACW	2	I	I		M	M		M					M
<i>C. californica</i>	California milk-maids	CACA39						M		M		M		M		M
<i>C. cordifolia</i>	Heart-leaf bittercress	CACO6	FACW	2	I	I		M	M							M
<i>C. nuttallii</i>	Nuttall's bittercress	CANU17	FACW	2	I	I		M								M
<i>C. oligosperma</i>	White western bittercress	CAOL	FAC	2	I	I		M	M		M		M	M	M	M
CARDUUS (p. 268)	PLUMELESS THISTLE															
<i>C. acanthoides</i> ssp. <i>acanthoides</i> *	Plumeless spiny thistle	CAACA									L		L		L	L
<i>C. nutans</i> *	Musk thistle	CANU4	UPL	2		R	R	L		L			L	L	L	L
<i>C. pycnocephalus</i> ssp. <i>pycnocephalus</i> *	Italian plumless thistle	CAPYP									L		L			

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CASTILLEJA Fam: OROBANCHACEAE from SCROPHULARIACEAE (p. 956)	PAINTBRUSH, OWL'S CLOVER															
<i>C. affinis</i> and ssp.	Indian paintbrush	CAAF								M	M		M	M		
<i>C. applegatei</i> and ssp.	Applegate's paintbrush	CAAP4	3			I		M		M			M	M	M	
<i>C. arachnoidea</i>	Cobwebby paintbrush	CAAR11						L						L	L	
<i>C. attenuata</i>	Valley tassels	CAAT25							H	H	H					
<i>C. campestris</i> and ssp.	Field owl's clover	CACA79	FACW	2		R	R	H		H		H		H		
<i>C. densiflora</i> and ssp.	Dense-flowered owl's clover	CADE29							L	L		L				
<i>C. exserta</i> and ssp.	Purple owl's clover	CAEX14								M	M	M		M		
<i>C. lacera</i>	Cut-leaf owl's clover	CALA68											M		M	M
<i>C. lemmontii</i>	Lemmon's paintbrush	CALE18	FACW	3		I	I	H	H							
<i>C. linariifolia</i>	Wyoming paintbrush	CALI4								L				L	L	
<i>C. miniata</i> and ssp.	Giant red paintbrush	CAMI12	FACW	3		I	I	M	M		M				M	M
<i>C. peirsonii</i>	Peirson's paintbrush	CAPE9		3		I	I	H	H							
<i>C. rubicundula</i> ssp. <i>lithospermoides</i>	Yellow cream sacs	CARUL								M	M	M				
<i>C. rubicundula</i> ssp. <i>rubicundula</i>	Pink cream sacs	CARUR2								M	M	M				
<i>C. subinclusa</i>	Long-leaf paintbrush	CASU10							L	L		L		L	L	
<i>C. tenuis</i>	Hairy owl's clover	CATE26	FACU	2		R	R	L	L		L				L	L
CAULANTHUS (p. 535)	JEWEL FLOWER															
CAULANTHUS sp.									L	L	L	L	L	L	L	
CENTAUREA (p. 270)	KNAPWEED, STAR THISTLE															
<i>C. cyanus</i> *	Common bachelor button	CECY2	FACU	2			R			L	L	L		L		

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<i>C. melitensis*</i>	Tocalote, Napa star thistle	CEME2							L	L	L	L	L	L		
<i>C. stoebe</i> ssp. <i>micranthos</i> *	Spotted knapweed	CESTM							L	L	L	L	L	L		
<i>C. solstitialis*</i>	Yellow star thistle	CESO3	2			R			L	L	L	L	L	L		
<i>C. virgata*</i>	Virgate star thistle	CEVI							L	L	L	L	L	L		
<i>CENTAURIUM</i> (Native spp. now <i>ZELTNERA</i>) (p. 812)	CENTAURY															
<i>C. exaltatum</i> (Now <i>ZELTNERA exaltata</i>) (p. 817)	Great Basin centaury	ZEEX	FACW						L	L		L	L	L		
<i>C. muhlenbergii</i> (Now <i>ZELTNERA muhlenbergii</i>)	Muhlenberg's centaury	ZEMU	FACW						L	L	L	L	L	L	L	L
<i>C. venustum</i> (Now <i>ZELTNERA venusta</i>)	Calif. Centaury	ZEVE							L	L	L	L	L	L	L	L
<i>CERASTIUM</i> (p. 606)	MOUSE-EARED CHICKWEED															
<i>C. arvense</i> ssp. <i>strictum</i>	Field mouse-eared chickweed	CEARS5	FACU	2		R	R	L		L	L	L	L			
<i>C. beeringianum</i>	Bering mouse-eared chickweed	CEBE2	FACU	2		R	R		L							
<i>C. fontanum</i> ssp. <i>vulgare</i> *	Common mouse-ear chickweed.	CEFOV	FACU	2		R	R			M	M	M	M			
<i>C. glomeratum*</i>	Sticky mouse-eared chickweed	CEGL2	FACU	2		R	R		L	L	L	L	L	L		
<i>C. viride</i>	Western field mouse-eared chickweed	CEVI5							L	L	L	L				
<i>CHAMAESYCE</i> (p. 710)	PROSTRATE SPURGE															
<i>C. maculata</i> *	Common spotted spurge	CHMA11							L	L	L	L	L	L		
<i>C. serpyllifolia</i> and ssp.	Thyme-leaved spurge	CHSE6							L	L	L	L	L	L		

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CHAMERION (See <i>EPILOBIUM</i>) (p. 930)	FIREWEED, WILLOW-HERB															
<i>C. angustifolium</i>	Fireweed	CHAN9	FACU	3		I		L	L		L					L
<i>C. latifolium</i>	Broad-lvd. Willow-herb	CHLA13	FACW	2		I		L	L							L
CHAMOMILLA (Now <i>MATRICARIA</i>) (p. 384)	CHAMOMILE, MAY-WEEED															
<i>C. occidentalis</i> (Now <i>MATRICARIA occidentalis</i>)	Valley mayweed	MAOC	FACW	2				R	L			L	L	L		
<i>C. suaveolens</i> (Now <i>MATRICARIA discoidea</i>)*	Pineapple weed	MADI6	FACU	2				R	L		L	L	L	L	L	
CHENOPODIUM (p. 638)	PIGWEED, GOOSE-FOOT															
<i>C. album</i> *	White lamb's quarters	CHAL7	FACU	2				R			M	M	M	M		M
<i>C. californicum</i>	California goosefoot	CHCA3								L	L	L	L			L
<i>C. fremontii</i>	Fremont's goosefoot	CHFR3	FACU	2				R		L	L					L
<i>C. hians</i> (Formerly <i>C. incognitum</i>)	Pinyon goosefoot	CHHI									M		M		M	M
CHLOROGALUM Fam: AGAVACEAE from <i>LILIACEAE</i> (p. 1284)	SOAPROOT															
<i>C. pomeridianum</i> and ssp.	Wavy-leaf soaproot	CHPO3								L	L	L	L			
CHORIZANTHE (p. 1079)	SPINEFLOWER															
CHORIZANTHE sp.	Spineflower									L	L	L	L	L	L	
CICUTA (p. 176)	WATER HEMLOCK															
<i>C. douglasii</i> (PO)	Western water hemlock	CIDO	OBL	4		I		L			L		L		L	L
<i>C. maculata</i> and var. (PO)	Spotted water hemlock	CIMA2	OBL	4		I		L			L		L		L	L

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<i>CIRCEA</i> (p. 933)	ENCHANTER'S NIGHT-SHADE															
<i>C. alpina</i> ssp. <i>pacifica</i>	Alpine enchanter's nightshade	CIALP2	FAC	2			I	L	L		L		L		L	
<i>CIRSIAUM</i> (p. 281)	THISTLE															
<i>C. andersonii</i>	Anderson's thistle	CIAN							L		L					L
<i>C. arvense</i> *	Canada thistle	CIAR4	FAC	3		R	R				L		L		L	L
<i>C. brevistylum</i>	Short-style thistle	CIBR2						L		L	L					L
<i>C. cymosum</i> var. <i>canovirens</i>	Gray-green thistle	CICYC								L		L	L	L	L	L
<i>C. cymosum</i> var. <i>cymosum</i>	Peregrine thistle	CICYC2								L		L	L		L	L
<i>C. occidentale</i> var. <i>californicum</i>	California thistle	CIOCC4								L	L	L	L			L
<i>C. occidentale</i> var. <i>candissimum</i>	Snowy thistle	CIOCC								L		L		L	L	L
<i>C. ochrocentrum</i> *	Yellow-spined thistle	CIOC2						L		L					L	L
<i>C. scariosum</i> and var.	Meadow thistle	CISC2	FAC	3	I	I	L	L		L						L
<i>C. undulatum</i>	Wavyleaf thistle	CIUN	FACU							L		L	L			L
<i>C. vulgare</i> *	Bull thistle	CIVU	FACU	3		R	R	L		L	L	L	L			L
<i>CLARKIA</i> (p. 933)	CLARKIA, FAREWELL-TO-SPRING															
<i>C. affinis</i>	Chaparral clarkia	CLAF								L	L	L	L	L	L	L
<i>C. amoena</i> and ssp.	Lovely farewell-to-spring	CLAM								L	L	L	L	L	L	L
<i>C. bottae</i>	Punchbowl clarkia	CLBO								L	L	L	L	L	L	L
<i>C. cylindrica</i> and ssp.	Speckled clarkia	CLCY								L	L	L	L	L	L	L
<i>C. dudleyana</i>	Dudley's clarkia	CLDU								L	L	L	L	L	L	L
<i>C. purpurea</i>	Winecup fairy fan	CLPU2								L	L	L	L	L	L	L

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<i>C. rhomboidea</i>	Rhomboid clarkia	CLRH								L	L	L	L	L	L	L
<i>C. williamsonii</i>	Fort Miller fairy fan	CLWI								L	L	L	L	L	L	L
CLAYTONIA Fam: MONTIACEAE from PORTULACACEAE (p. 904)	MINER'S LETTUCE, SPRING BEAUTY															
<i>C. cordifolia</i>	Heart-leaf spring beauty	CLCO3	FAC	2	I	I		M			M					M
<i>C. lanceolata</i>	Lance-leaf spring beauty	CLLA2	FAC	2		I	I	M	M		M				M	M
<i>C. nevadensis</i>	Sierra Nevada spring beauty	CLNE	FAC	3		I	I	M	M							
<i>C. palustris</i>	Marsh claytonia	CLPA10	FACW	2	I			M	M							
<i>C. parviflora</i> and ssp.	Streambank spring beauty	CLPA5	FACU	2		R	R	M		M		M		M	M	M
<i>C. perfoliata</i> and ssp.	Perfoliate miner's lettuce	CLPE	FAC	2		R	R	M		M		M	M	M	M	M
<i>C. rubra</i>	Redstem spring beauty	CLRU2						M	M		M				M	M
COLLINSIA Fam. PLANTAGINACEAE from SCOPHULARIACEAE (p. 1007)	BLUE-EYED MARY, CHINESE HOUSES															
<i>C. childii</i>	Child's blue-eyed Mary	COCH								L	L	L				L
<i>C. concolor</i>	Southern Chinese houses	COCO								L		L	L	L		
<i>C. grandiflora</i>	Large-flowered collinsia	COGR2								L						
<i>C. heterophylla</i> and var.	Chinese houses	COHE						L		L	L	L	L			L
<i>C. parryi</i>	Parry's blue-eyed mary	COPA2											L	L	L	L
<i>C. parviflora</i>	Small-flowered collinsia	COPA3		2		R	R	L	L		L		L		L	L
<i>C. rattanii</i>	Rattan's blue-eyed mary	CORA2														L
<i>C. sparsiflora</i>	Few-flowered collinsia	COSP										L	L	L	L	
<i>C. tinctoria</i>	Dyer's collinsia, Tincture plant	COTI	FACU	2		R	R			L		L	L	L		L

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<i>C. torreyi</i>	Torrey's blue-eyed mary	COTO						L	L					L	L	
COLLOMIA (p. 1040)	COLLOMIA															
<i>C. diversifolia</i>	Serpentine collomia	CODI2								L		L	L			
<i>C. grandiflora</i>	Large-flowered mountain trumpet	COGR4		2			R			L	L	L	L	L	L	
<i>C. heterophylla</i>	Variable-leaved collomia	COHE2							L	L	L					
<i>C. linearis</i>	Linear-leaf collomia	COLI2	FACU	2		R	R	L		L		L	L	L	L	L
<i>C. rawsoniana</i> (SE)	Rawson's flaming trumpet	CORA3	FACU	2		R	L									L
<i>C. tinctoria</i>	Yellow-staining collomia	COTI2	FACU	2		R		L		L		L	L	L	L	L
COMARUM (See POTENTILLA) (p. 1172)	CINQUEFOIL															
<i>C. palustre</i>	Purple cinquefoil	COPA28	OBL	2	I	I		L		L						
COMASTOMA (See GENTIANELLA) (p. 812)	GENTIAN															
<i>C. tenellum</i>	Dane's dwarf gentian	CETE13	FACW	2	R	R		L	L							
CONIUM (p. 178)	POISON HEMLOCK															
<i>C. maculatum</i> * (PO)	Common poison hemlock	COMA2	FAC	2		I	I	L		L	L	L				
CREPIS (p. 292)	HAWKSBEARD															
<i>C. acuminata</i>	Long-leaved hawksbeard	CRAC2		2			I	H		H				H	H	
<i>C. bakeri</i> and ssp.	Baker' hawksbeard	CRBA2													M	M
<i>C. capillaris</i> *	Smooth hawksbeard	CRCA3	FACU	2		R			H	H	H	H				
<i>C. intermedia</i>	Intermediate hawksbeard	CRIN4						H		H	H	H	H		H	
<i>C. modocensis</i>	Modoc hawksbeard	CRMO4													H	H
<i>C. monticola</i>	Mountain hawksbeard	CRMO5						H	M						H	M
<i>C. occidentalis</i> and ssp.	Western hawksbeard	CROC						H	H						H	H

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<i>C. pleurocarpa</i>	Many-seeded hawks-beard	CRPL						L		L					L
CRYPTANTHA (p. 455)	CRYPTANTHA														
<i>C. circumscissa</i>			2		R	R									
<i>C. sp.</i>									L	L	L	L	L	L	L
CYNOGLOSSUM (p. 468)	HOUND'S-TONGUE														
<i>C. grande</i>	Pacific houndstongue	CYGR								L		L	L		
<i>C. occidentale</i>	Sierra or Western hound-stongue	CYOC						L		L				L	L
<i>C. officinale*</i>	Common houndstongue	CYOF	FACU												L
DAUCUS (p. 180)	WILD CARROT														
<i>D. carota*</i>	Queen Anne's lace	DACA6	FACU	2						L	L	L			
<i>D. pusillus</i>	American wild carrot	DAPU3		2						L	L	L			
DEINANDRA (See HEMIZONIA) (p. 296)	TARWEED, TARPLANT														
<i>D. corymbosa</i>	Coastal tarweed	DEC014							L	L	L	L		L	
<i>D. fasciculata</i>	Clustered tarweed	DEFA	FACU	2			R		L	L	L	L			
<i>D. kelloggii</i>	Kellogg's tarweed	DEKE							L	L	L	L			
<i>D. lobbii</i>	Lobb's tarweed	DELO3							L	L	L	L		L	
DIETERIA (See MACHAERANTHERA) (p. 300)	TANSY ASTER														
<i>D. canescens</i> and var.	Hoary tansy aster	DICA18	FAC	2			R	L		L				L	L
DELPHINIUM (PO) (p. 1136)	LARKSPUR														
<i>D. andersonii</i> (PO)	Anderson's larkspur	DEAN						L						L	L
<i>D. cardinalis</i> (PO)	Scarlet larkspur	DECA2							L	L		L	L		

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<i>D. decorum</i> and ssp. (PO)	Coast blue larkspur	DEDE							L	L		L	L		
<i>D. depauperatum</i> (PO)	Few-flowered larkspur	DEDE2		2	I									L	L
<i>D. glaucum</i> (PO)	Tall Mtn. larkspur	DEGL3	FACW	3	I		L	L		L					L
<i>D. gracilentum</i> (PO)	Slender larkspur	DEGR										L			L
<i>D. hansenii</i> and ssp. (PO)	Hansen's larkspur	DEHA					L		L	L	L	L	L		L
<i>D. hesperium</i> and ssp. (PO)	Western or foothill larkspur	DEHE	FAC	3	I				L	L	L	L			L
<i>D. inopinum</i> (PO)	Unexpected larkspur	DEIN													L
<i>D. nudicale</i> (PO)	Orange-red larkspur	DENU							L		L	L	L	L	L
<i>D. nuttallianum</i> (PO)	Nuttall's meadow larkspur	DENU2	FAC	3	I	L	L				L	L	L	L	L
<i>D. parryi</i> and ssp. (PO)	Parry's larkspur	DEPA2							L	L	L	L	L	L	
<i>D. variegatum</i> and ssp. (PO)	Variegated larkspur	DEVA				L		L	L	L	L	L	L		
<i>DESCURAINIA</i> (p. 540)	TANSY MUSTARD														
<i>D. californica</i>	California tansy mustard	DECA6						M						E	M
<i>D. incana</i>	Mountain tansy mustard	DEIN5	FACU	2		R	M	M		M				M	M
<i>D. incisa</i> and ssp.	Cut-leaved tansy mustard	DEIN13		2			M							M	M
<i>D. pinnata</i> and ssp.	Western tansy mustard	DEPI		2	R	R	M	M		M	M	M	M	M	M
<i>D. sophia</i> *	Herb Sophia	DESO2		2	R	R			M	M	M	M		M	
<i>DICENTRA</i> (p. 981)	BLEEDING HEART														
<i>D. chrysanthia</i> (Now <i>EHRENDORFERIA chrysanthia</i>) (PO) (p. 982)	Golden ear-drops	EHCH							L		L	L			
<i>D. formosa</i>	Pacific bleeding hearts	DIFO	FACU	3			L	L		L					L

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS
<i>D. nevadensis</i>	Tulare Co. bleeding hearts	DINE						L	L				L		L
<i>D. pauciflora</i>	Few-fl. Bleeding hearts	DIPA						L							L
<i>D. uniflora</i>	Longhorn steershead	DIUN						L	L					L	L
<i>DICHELOSTEMMA</i> Fam: <i>THEMIDACEAE</i> from <i>LILIACEAE</i> (p. 1511)	BRODAIEA, BLUE DICKS														
<i>D. capitatum</i> and ssp.	Common capitate blue dicks	DICA14	FACU	3			I				M	M	M		M
<i>D. congestum</i>	Fork-toothed Ookow	DICO19									M	M	M		
<i>D. ida-maia</i>	California firecracker flower	DIID								M		M			M
<i>D. multiflorum</i>	Many-flowered brodiaea	DIMU5								M	M	M	M		M
<i>D. volubile</i>	Snakelily, Twining brodiaea	DIVO								L	L	L	L		
<i>DODECATHEON</i> (Now <i>PRIMULA</i>) (p. 1129)	SHOOTING STAR														
<i>D. alpinum</i> (Now <i>PRIMULA tetrandra</i>)	Alpine shooting star	PRTE	FACW	4	C	C		M	M		M				M
<i>D. clevelandii</i> and ssp. (Now <i>PRIMULA clevelandii</i> and ssp.)	Padre's shooting star	PRCL								M	M	M	M		
<i>D. conjugens</i> (Now <i>PRIMULA conjugens</i>)	Bonneville shooting star	PRCO	FACU	4	I	I									M
<i>D. hendersonii</i> (Now <i>PRIMULA hendersonii</i>)	Henderson's shooting star	PRHE								M	M	M	M		
<i>D. jeffreyi</i> (Now <i>PRIMULA jeffreyi</i>)	Sierra shooting star	PRJE	FACW	4	I	I		M	M						M
<i>D. redolens</i> (Now <i>PRIMULA fragrans</i>)	Scented shooting star	PRFR	OBL		I	I		M	M		M				M
<i>D. subalpinum</i> (Now <i>PRIMULA subalpinum</i>)	Subalpine shooting star	PRSU	FACU	4	I	I		M						M	M
<i>DOWNINGIA</i> (p. 591)	DOWNINGIA			OBL		R	R	L		L	L	L		L	
<i>Downingia</i> sp.															

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<i>DRABA</i> (p. 543)	DRABA, WHITLOW GRASS														
<i>D. albertina</i>	Slender draba	DRAL4	FAC	2		R		M	M		M			M	
<i>D. prealta</i>	Tall draba	DRPR	FACW	2		R		M	M						M
<i>D. verna*</i>	Vernal whitlow grass	DRVE2		2		R				M	M	M	M	M	
<i>DROSERA</i> (p. 682)	SUNDEW														
<i>D. anglica</i>	English sundew	DRAN	OBL	2	C			L	L						
<i>D. rotundifolia</i>	Round-leaved sundew	DRRO	OBL	2	C			L	L		L				
<i>DRYMOCALLIS</i> (See <i>POTENTILLA</i>) (p. 1175)	CINQUEFOIL														
<i>D. glandulosa</i> and var.	Sticky cinquefoil	DRGL7	FAC	2		I	I	L	L		L		L		L
<i>DUGALDIA</i> (Now <i>HYMENOXYS</i>) (p. 357)	SNEEZEWEEED														
<i>D. hoopesii</i> (Now <i>HYMENOXYS hoopesii</i>) (PO)	Tall Mtn. sneezeweed	HYHO	FAC	3			I	M	M						M
<i>EHRENDORFERIA</i> (See <i>DICENTRA</i>) (p. 982)															
<i>E. chrysanthia</i>	Golden ear-drops	EHCH									L		L	L	
<i>EPILOBIUM</i> (p. 941)	WILLOW-HERB														
<i>E. anagallidifolium</i>	Alpine willow-herb	EPAN4	FACU					M	M						
<i>E. angustifolium</i> ssp. <i>angustifolium</i> (Now <i>CHAMERION angustifolium</i> ssp. <i>circumvagum</i>) (p. 930)	Fireweed	CHAN9	FACU	3		I		L	L		L				L
<i>E. brachycarpum</i>	Short-fruit willow-herb	EPBR3		2			R	M	M		M	M		M	M
<i>E. canum</i> and ssp.	California fuschia	EPCA3						L	L	L			L		L
<i>E. ciliatum</i> and ssp.	Fringed willow-herb	EPCI	FACW	2	I	I		M	M		M				M
<i>E. densiflorum</i>	Dense-flowered willow-herb	EPDE4	FACW	2	R	R		M							M
<i>E. glaberrimum</i> and ssp.	Glaucus willow-herb	EPGL	FACW	2	R	R		M	M		M				M
<i>E. hallianum</i>	Hall's willow-herb	EPHA	FACW	2	I	I		M	M		M				M

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<i>E. hornemannii</i> ssp. <i>hornemannii</i>	Hornemann's willow-herb	EPHOH	FACW	2	R	R		M	M		M					M
<i>E. howellii</i>	Subalpine fireweed	EPHO3	FACW	2		I	I	M	M							
<i>E. lactiflorum</i>	Milk-fld. willow-herb	EPLA3	FACW	2		I		M	M		M					
<i>E. latifolium</i> (Now CHAMERION latifolium) (p. 930)	Broad-lvd. Willow-herb	CHLA13	FACW	2	I	I		L	L							L
<i>E. minutum</i>	Small-flowered wil-low-herb	EPMI	FACU	2	R	R					M		M		M	
<i>E. obcordatum</i>	Rock fringe willow-herb	EPOB	FACU	2		I	I		M						M	
<i>E. oreganum</i>	Oregon fireweed	EPOR	OBL	2	I	I		L	L		L					L
<i>E. oregonense</i>	Oregon spike primrose	EPOR2	FACW	2	R	R		M	M		M					M
<i>E. palustre</i>	Marsh willow-herb	EPPA	OBL	2	I	I		M	M							
<i>E. torreyi</i>	Torrey's willow-herb	EPTO4	FACW	2	R	R		M	M							
<i>EQUISETUM</i> (p. 118)	HORSETAIL															
<i>E. arvense</i>	Common western horsetail	EQAR	FAC	5	R	R		L	L		L		L		L	L
<i>E. hyemale</i> ssp. <i>affine</i>	Common scouring rush	EQHYA2	FACW	5	R	R		L			L		L		L	L
<i>E. laevigatum</i>	Smooth scouring rush	EQLA	FACW	2	R	R		L	L		L		L		L	L
<i>E. telmateia</i> var. <i>braunii</i>	Braun's giant horsetail	EQTEB2	FACW	5	R	R		L			L					
<i>EREMOCARPUS</i> (See CROTON) (p. 714)	TURKEY MULLEIN															
<i>E. setigerus</i> (Now CROTON <i>setigerus</i>)	Turkey mullein	CRSE11		2			R			L	L	L	L		L	
<i>EREMOGONE</i> (See ARENARIA) (p. 607)	SANDWORT															
<i>E. congesta</i> and var.	Ballhead sandwort	ERCO24							L						L	L
<i>ERIGERON</i> (p. 312)	DAISY, FLEABANE															
<i>E. algidus</i>	Sierra fleabane	ERAL18						M	M						M	

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<i>E. aliceae</i>	Alice Eastwood's fleabane	ERAL3			I					M					M	
<i>E. breweri</i> and ssp.	Brewer's daisy	ERBR4							M		M		M	M	M	M
<i>E. coulteri</i>	Coulter's daisy	EPCO6	FACW	3	I	I		L	L						L	
<i>E. filifolius</i>	Thread-leaf daisy	ERFI2												L	L	
<i>E. foliosus</i> and ssp.	Leafy fleabane-daisy	ERFO2							M	M		M	M	M	M	
<i>E. glacialis</i> and ssp. (Formerly <i>E. peregrinus</i>)	Subalpine fleabane	ERGL	FACW	3	I	I		M	M						M	
<i>E. inornatus</i> and ssp.	Western rayless feabane	ERIN2								M			M	M		
<i>E. linearis</i>	Desert yellow fleabane	ERLI						L					L	L		
ERIOGONUM (p. 1083)	BUCKWHEAT															
<i>Annuals</i>										L	L	L	L	L	L	L
<i>Perennials</i>										L	L	L	L	L	L	L
ERIOPHYLLUM (p. 324)	WOOLLY SUNFLOWER															
<i>E. lanatum</i> and var.	Common woolly sunflower	ERLA6							L	L			L	L	L	L
ERODIUM (p. 818)	FILAREE, CRANEBILL															
<i>E. botrys*</i>	Long-beaked storkbill	ERBO	FACU	2			R			H	H	H	H			
<i>E. brachycarpum*</i>	Short-fruited filaree	ERBR14		2			R			H	H	H	H			
<i>E. cicutarium*</i>	Red-stemmed filaree	ERCI6		2			R	H		H	H	H	H		H	
<i>E. moschatum*</i>	Musk filaree	ERMO7		2			R			H	H	H	H		H	
ERYNGIUM (p. 181)	BUTTON -CELERY															
<i>E. alismifolium</i>	Modoc eryngo	ERAL8	FACW	2				L			L				L	L
<i>E. aristulatum</i>	Jepson's button- celery	ERAR11	OBL	2	I			L			L					
<i>E. articulatum</i>	Bee thistle	ERAR14	OBL	2				L			L				L	

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<i>ESCHSCHOLZIA</i> (p. 982)	POPPY															
<i>E. caespitosa</i>	Tufted poppy	ESCA								L	L	L	L	L		
<i>E. californica</i>	California poppy	ESCA2								L	L	L	L		L	
<i>E. lemmonii</i>	Lemmon's poppy	ELSE								L	L	L				
<i>E. lobbii</i>	Frying pan poppy	ESLO								L	L					
<i>EUCEPHALUS</i> (See ASTER) (p. 326)	ASTER															
<i>E. breweri</i>	Brewer's golden aster	EUBR12	3		I		M								M	
<i>E. ledophyllum</i> var. <i>covillei</i>	Cascade aster	EULEC	3	I		I				M					M	
<i>EURYBIA</i> (See ASTER) (p. 330)	ASTER															
<i>E. integrifolia</i>	Thick-stemmed aster	EUIN	3		I		M								M	
<i>FLOERKEA</i> (p. 863)	FALSE MERMAID															
<i>F. proserpinacoides</i>	False mermaid weed	FLPR	FACW	2		R	L	L							L	L
<i>FRAGARIA</i> (p. 1178)	WILD STRAWBERRY															
<i>F. vesca</i>	Woodland strawberry	FRVE	FACU	2	I	I	L			L		L			L	L
<i>F. virginiana</i>	Mountain strawberry	FRVI	FACU	2	I	I	L	L							L	L
<i>FRASERA</i> (See SWERTIA) (p. 813)	FRASERA															
<i>F. albicaulis</i>	White-stemmed frasera	FRAL2													L	L
<i>F. speciosa</i>	Monument plant	FRSP	4	I				L		L					L	L
<i>F. umpquaensis</i>	Umpqua green gentian	FRUM					L									
<i>FRITILLARIA</i> (p. 1387)	FRITILLARY															
<i>F. affinis</i>	Coast checker lily	FRAF2	3							M		M			M	
<i>F. atropurpurea</i>	Spotted Mission bells	FRAT	3				M								M	M
<i>F. biflora</i>	California chocolate lily	FRBI	3						M	M	M					

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<i>F. pudica</i>	Yellow fritillary	FRPU2	3										M	M	M	M	
<i>F. micrantha</i>	Brown Mission bells	FRMI	3										M	M	M		
<i>F. recurva</i>	Scarlet fritillary	FRRE	3										M	M	M		
<i>GALIUM</i> (p. 1206)	BEDSTRAW																
<i>G. angustifolium</i> and ssp.	Narrow-leaved bedstraw	GAAN2								L	L		L	L		L	
<i>G. aparine</i>	Cleavers; goose-grass	GAAP2	FACU	2						L	L	L	L	L			
<i>G. bifolium</i>	Low Mtn. bedstraw	GABI		2	R	R		L	L		L				L	L	
<i>G. bolanderi</i>	Bolander's bedstraw	GABO						L		L		L	L	L	L	L	
<i>G. californicum</i> and ssp.	California bedstraw	GACA3								L		L	L			L	
<i>G. trifidum</i> and ssp.	Trifid bedstraw	GATR2	FACW	2	I	I		L	L		L		L				
<i>G. triflorum</i>	Sweet-scented bedstraw	GATR3	FACU	2	I	I		L	L		L		L		L	L	
<i>GAYOPHYTUM</i> (p. 947)	GROUNDSMOKE																
<i>G. decipiens</i>	Deceptive gayophytum	GADE2		2				R		M		M				M	M
<i>G. diffusum</i> and ssp.	Diffuse groundsmoke	GADI2		2				R	M	M		M				M	M
<i>G. humile</i>	Low groundsmoke	GAHU2	FAC	2				R	M	M		M		M		M	M
<i>G. racemosum</i>	Black-footed gayophytum	GARA	FAC	2		R		R	M	M		M				M	M
<i>G. ramosissimum</i>	Much-branched smoke-weed	GARA2		2				R		M						M	M
<i>GENTIANA</i> (p. 814)	GENTIAN																
<i>G. affinis</i>	Pleated gentian	GEAF	FACU	3				I	L			L				L	L
<i>G. calycosa</i>	Explorers' gentian	GECA	FACW	3	I	I		L	L							M	
<i>G. fremontii</i>	Fremont's gentian	GEFR	FACW	2	R	R				L	L						
<i>G. plurisetosa</i>	Klamath gentian	GEPL6		3	I	I	I	L			L						

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<i>G. newberryi</i> and var.	Newberry's alpine gentian	GENE	FACW	3	I	I		L	L							
<i>G. setigera</i>	Mendocino gentian	GESE4	OBL								L					
<i>GENTIANELLA</i> (p. 816)	GENTIAN, FELWORT															
<i>G. amarella</i> ssp. <i>acuta</i>	Northern gentian	GEAMA	FACW	2		I		L	L		L					
<i>G. tenella</i> ssp. <i>tenella</i> (Now COMASTOMA <i>tenellum</i>)	Dane's dwarf gentian	COTE13	FACW	2		I		L	L							
<i>GENTIANOPSIS</i> (p. 816)	FRINGED GENTIAN															
<i>G. holopetala</i>	Sierra fringed gentian	GEHO3	OBL	2		I				L		L				
<i>G. simplex</i>	Hiker's gentian	GESI3	FACW	2	I	I			L		L					
<i>GERANIUM</i> (p. 820)	GERANIUM															
<i>G. bicknellii</i>	Bicknell's geranium	GEBI2		2				R			L					L
<i>G. californicum</i>	California geranium	GECA4	FAC	3				R	L	L		L				L
<i>G. carolinianum</i>	Carolina geranium	GECA5									M	M	M	M		M
<i>G. dissectum</i> *	Cut-leaf geranium	GEDI									M	M	M	M		
<i>G. molle</i> *	Dove's-foot geranium	GEMO		2				R			M	M		M		
<i>G. oreganum</i>	Oregon geranium	GEOR2		3		I	I	M			M					M
<i>G. richardsonii</i>	Richardson's geranium	GERI	FAC	4		I	I	M	M		M					M
<i>G. viscosissimum</i>	Sticky geranium	GEVI2	FACU	4		I	I	M								M M
<i>GEUM</i> (p. 1179)	AVENS, GEUM															
<i>G. macrophyllum</i> and var.	Large-leaved avens	GEMA4	FAC	3	I	I		L	L		L					L
<i>G. triflorum</i> var. <i>ciliatum</i>	Prairie smoke	GETRC	FACU	3		I	I	L	L							L L
<i>GILIA</i> (p. 1043)	GILIA															
<i>G. cana</i> and ssp.	Cobwebby gilia	GICA3														L L

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<i>G. capillaris</i> (Now <i>NAVARRETIA capillaris</i>) (p. 1062)	Miniature gilia	NACA6	FAC	2		R	R	L	L		L				L	L
<i>G. inyoensis</i> (Now <i>LINANTHUS inyoensis</i>) (p. 1058)	Inyo linanthus	LIIN10													L	L
<i>G. leptalea</i> and ssp. (Now <i>NAVARRETIA leptalea</i> and ssp.) (p. 1062)	Bridge's gilia	NALE5		2					L		L		L		L	L
<i>G. tricolor</i>	Bird's-eye gilia	GITR2								L	L	L				
GNAPHALIUM (p. 334)	CUDWEED, EVER-LASTING															
<i>G. californicum</i> (Now <i>PSEUDO GNAPHALIUM californicum</i>) (p. 405)	Calif. Cudweed	PSCA13							L	L		L	L		L	
<i>G. canescens</i> (Now <i>PSEUDO GNAPHALIUM canescens</i>) (p. 405)	Wright's cudweed	PSCA11	FACU	2		R	R			L		L	L		L	
<i>G. palustre</i>	Western marsh cudweed	GNPA	FACW	2		R	R	L	L		L		L		L	
<i>G. stramineum</i> (Now <i>PSEUDO GNAPHALIUM stramineum</i>) (p. 405)	Cotton-batting plant	PSST7	FAC	2		R	R	L		L		L	L		L	
GOODYERA (p. 1401)	RATTLESNAKE PLANTAIN															
<i>G. oblongifolia</i>	Western rattlesnake plantain	GOOB2	FACU	3						L					L	L
GRINDELIA (p. 336)	GUMPLANT															
<i>G. camporum</i>	Great valley gumplant	GRCA	FACW	2						L	L	L				
<i>G. hallii</i>	San Diego gumplant	GRHA								L		L	L		L	
<i>G. squarrosa</i> var. <i>serrulata</i>	Curly-cup gumweed	GRSQS	FACU	2				L		L		L	L		L	L
HACKELIA (p. 472)	STICKSEED															
<i>H. amethystina</i>	Amethyst stickseed	HAAM		3			R	L		L					L	
<i>H. bella</i>	Beautiful stickseed	HABE					L			L					L	
<i>H. californica</i>	California stickseed	HACA		3		R	R			L					L	L

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<i>H. cusickii</i>	Cusick's stickseed	HACU													L	
<i>H. floribunda</i>	Many-flowered stickseed	HAFL2	FACU	3		R	R	L							L	L
<i>H. micrantha</i>	Jessica's stickseed	HAMI	FACU	3		I	I	L	L		L			L	L	
<i>H. nervosa</i>	Sierra stickseed	HANE						L	L						L	
<i>H. setosa</i>	Bristly stickseed	HASE									L				L	L
<i>H. velutina</i>	Velvet stickseed	HAVE														L
HALOGETON (PO) (p. 644)	SALTLOVER															
<i>H. glomeratus*</i> (PO)	Saltlover	HAGL													L	
HASTINGSIA (p. 1285)	RUSH LILY															
<i>H. alba</i>	White-flowered rush lily	HAAL2	OBL	3	I	I		L	L		L					L
<i>H. serpenticola</i>	Klamath rush lily	HASE2						L								L
HELENIUM (PO) (p. 341)	SNEEZEWEEED															
<i>H. autumnale</i> (PO)	Autumn sneezeweed	HEAU	FACW	3	I	I		L								L
<i>H. bigelovii</i> (PO)	Bigelow's sneezeweed	HEBI	FACW	3	I	I	I	L	L		L					L
<i>H. puberulum</i> (PO)	Rosilla sneezeweed	HEPU2	FACW	3	I	I		L			L	L	L			
HELIANTHELLA (p. 342)	SMALL SUNFLOWER															
<i>H. californica</i> and var.	Calif. Helianthella	HECA		2							M	M	M	M	M	M
HELIANTHUS (p. 343)	SUNFLOWER															
<i>H. annuus</i>	Common annual sunflower	HEAN3	FACU	2							L	L	L		L	
<i>H. bolanderi</i>	Bolander's sunflower	HEBO3	FAC	2							L	L	L	L		L
<i>H. californicus</i>	California sunflower	HECA5	OBL	3				M			M	M	M			
<i>H. cusickii</i>	Cusick's sunflower	HECU2											L		L	L
<i>H. gracilentus</i>	Slender sunflower	HEGR3								L	L	L		L		

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<i>HEMIZONIA</i> (Most spp. now <i>DEINANDRA</i>) (pp. 347, 297)	TARWEED, TARPLANT															
<i>H. congesta</i> and ssp.	Hayfield tarweed	HECO7		2				R			L	L	L	L	L	
<i>H. corymbosa</i> (Now <i>DEINANDRA corymbosa</i>)	Coastal tarweed	DECO								L	L	L		L		
<i>H. fasciculata</i> (Now <i>DEINANDRA fasciculata</i>)	Clustered tarweed	DEFA	FACU	2				R		L	L		L	L		
<i>H. kelloggii</i> (Now <i>DEINANDRA kelloggii</i>)	Kellogg's tarweed	DEKE								L	L	L	L	L		
<i>H. lobbii</i> (Now <i>DEINANDRA lobbii</i>)	Lobb's tarweed	DELO3								L	L	L		L	L	
<i>HERACLEUM</i> (p. 183)	COW PARSNIP															
<i>H. maximum</i> (Formerly <i>H. lanatum</i>)	American cow parsnip	HEMA80	FAC	5	I	I		H	H	H		H		H	H	H
<i>HESPEROCHIRON</i> (p. 476)																
<i>H. californicus</i>	California hesperochiron	HECA7	FACU	2		R		L	L	L					L	L
<i>H. pumilus</i>	Dwarf hesperochiron	HEPU6	FAC	2		R		L	L	L					L	L
<i>HETEROTHECA</i> (p. 350)	GOLDEN ASTER, TELEGRAPH WEED															
<i>H. grandiflora</i>	Telegraph weed	HEGR7								L	L	L	L			
<i>H. oregona</i> and var.	Rayless Oregon golden-aster	HEOR2	FACU	2				L					L	L		
<i>H. villosa</i> and var.	Hairy golden-aster	HEVI4							L						L	
<i>HEUCHERA</i> (p. 1236)	ALUMROOT															
<i>H. micrantha</i>	Small-flowered alumroot	HEMI7						M		M						M
<i>H. rubescens</i>	Pink alumroot	HERU	UPL							M		M				M
<i>HIERACIUM</i> (p. 352)	HAWKWEED															
<i>H. albiflorum</i>	White-flowered hawkweed	HIAL2							M	M	M	M			M	
<i>H. argutum</i>	So. California hawkweed	HIAR2								M	M	M				

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<i>H. bolanderi</i>	Bolander's hawkweed	HIBO								M					M
<i>H. greenei</i>	Greene's hawkweed	HIGR2							M		M				M
<i>H. horridum</i>	Prickly hawkweed	HIHO							M						M
<i>H. scouleri</i>	Scouler's hawkweed	HISC2								L		L	L	L	L
<i>H. triste</i> (Formerly <i>H. gracile</i>)	Alpine hawkweed	HITR2	FACU	2		R	R	M							M
<i>HIRSCHFELDIA</i> (p. 550)	SUMMER MUSTARD														
<i>H. incana</i> *	Summer field mustard	HIIN3							L	L	L		L		
<i>HOLOCARPHA</i> (p. 353)	TARWEED														
<i>H. heermannii</i>	Heermann's tarweed	HOHE							L	L	L				
<i>H. obconica</i>	San Joaquin tarweed	HOOB							L	L	L				
<i>H. virgata</i> and ssp.	Virgate tarweed	HOVI							L	L	L				
<i>HORKELIA</i> (p. 1180)	HORKELIA														
<i>H. bolanderi</i>	Bolander's horkelia	HOBO2	FAC					L		L					L
<i>H. californica</i> and var.	California honeydew	HOCA3		2	I	I	L		L	L	L	L	L	L	L
<i>H. clevelandii</i> var. <i>clevelandii</i>	Clevekland's horkelia	HOCLC		2	I	I			L						L
<i>H. daucifolia</i> and var.	Carrot-leaved horkelia	HO DA							L						L
<i>H. fusca</i>	Dusky horkelia	HOFU		2	I	I		L		L					L L
<i>H. rydbergii</i>	Rydberg's horkelia	HORY		2	I	I	L		L						L
<i>H. tridentata</i> and var.	Three-toothed horkelia	HOTR							L				L	L	L L
<i>HOSACKIA</i> (N-fixing) (See <i>LOTUS</i>) (p. 757)	LOTUS														
<i>H. crassifolia</i> var. <i>crassifolia</i>	Thick-leaved deervetch	HOCRC								H		H	H	H	H
<i>H. incana</i>	Wolly lotus	HOIN3									H				H
<i>H. oblongifolia</i>	Streambank lotus	HOOB2	OBL	2	I	I		H		H		H	H	H	H

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<i>H. oblongifolia</i> var. <i>cuprea</i>	Copper-flowered hosackia	HOOBC	OBL	2	I	I		H								H
<i>H. pinnata</i>	Meadow bird's-foot trefoil	HOPI	FACW	2	I	I		H			H					H
<i>HYDROPHYLLUM</i> Fam: <i>BORAGINACEAE</i> from <i>HYDROPHYLACEAE</i> (p. 476)	WATERLEAF															
<i>H. capitatum</i> var. <i>alpinum</i>	Alpine waterleaf	HYCAA		3		I		M	M							M M
<i>H. fendleri</i> var. <i>albifrons</i>	Fendler's waterleaf	HYFEA	FAC								M					M
<i>H. occidentale</i>	Western waterleaf	HYOC	FACW	3		I		M	M		M		M			M
<i>H. tenuipes</i>	Pacific waterleaf	HYTE	FAC	3		I				M M						M
<i>HYPERICUM</i> (p. 830)	ST. JOHN'S WORT															
<i>H. anagalloides</i>	Tinker's penny	HYAN2	OBL	2	I	I		L	L		L					L L
<i>H. concinnum</i>	Gold-wire	HYCO3								L L L	L L					L
<i>H. formosum</i> var. <i>scouleri</i> (Now <i>H. scouleri</i>)	Scouler's St. John's wort	HYSC5	FACW	3	I	I		L		L			L L			L L L
<i>H. perforatum*</i> (PO)	Klamath weed	HYPE	FACU					L		L L		L L				L
<i>HYMENOXYS</i> (See <i>DUGALDIA</i>) (p. 357)	SNEEZEWEED															
<i>H. hoopesii</i>	Hoope's tall mtn. sneeze-weed	HYHO	FAC	3		I	I	M	M							M M
<i>H. lemmonii</i>	Alkali hymenoxys	HYLE		3			I	M	M							M
<i>HYPOCHAERIS</i> (p. 358)	CAT'S EAR															
<i>H. glabra*</i>	Smooth cat's-ear	HYGL2									L L	L L				L
<i>H. radicata*</i>	Rough cat's-ear	HYRA3	FACU	2							L L	L L				
<i>IPOMOPSIS</i> (p. 1053)	SCARLET GILIA, IPO-MOPSIS															
<i>I. aggregata</i> and ssp.	Scarlet skyrocket	IPAG							L	L		L		L		L L

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<i>I. congesta</i> and ssp.	Ball-head skyrocket	IPCO5													L	L
<i>I. polycladon</i>	Many-branched gilia	IPPO2													L	
<i>I. tenuituba</i>	Slender-tube skyrocket	IPTE4							L						L	
<i>IRIS</i> (p. 1357)	IRIS															
<i>I. douglasiana</i>	Douglas's iris	IRDO								L	L					
<i>I. hartwegii</i> and ssp.	Hartweg's iris	IRHA	OBL	5		I		L			L		L			L
<i>I. macrosiphon</i>	Bowl-tubed iris	IRMA								L		L				
<i>I. missouriensis</i>	Western blue flag	IRMI	FACW	5	I	I	I	L	L	L	L				L	L
<i>I. tenax</i> ssp. <i>klamathensis</i>	Klamath iris	IRTEK2								L						
<i>I. tenuissima</i> and ssp.	Long-tubed iris	IRTE3										L			L	L
<i>IVESIA</i> (p. 1184)	IVESIA, MOUSETAIL															
<i>I. aperta</i> var. <i>aperta</i>	Sierra Valley mousetail	IVAPA		2		I	I			L					L	L
<i>I. argyrocoma</i> var. <i>argyrocoma</i>	Silver-haired mousetail	IVARA							L	L						L
<i>I. campestris</i>	Field ivesia	IVCA2		2		I	I	M	M							
<i>I. lycopodioides</i> and var.	Clubmoss ivesia	IVLY	FAC	2	I	I		L	L							
<i>I. muirii</i>	Granite mousetail	IVMU							L							
<i>I. santolinoides</i>	Mousetail ivesia	IVSA2							L	L						L
<i>I. sericoleuca</i>	Plumas ivesia	IVSE	FAC	2		I	I	M	M							L
<i>I. unguiculata</i>	Yosemite ivesia	IVUN		2		I	I	M	M							
<i>JENSIA</i> (See MADIA) (p. 361)	TARWEED, TARPLANT															
<i>J. yosemitana</i>	Yosemite tarplant	JEYO	FACU	2				R	L							L
<i>KYHOSIA</i> (See MADIA) (p. 362)	TARWEED, TARPLANT															
<i>K. bolanderi</i>	Bolander's kyhosia	KYBO		2				I	L							

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<i>LACTUCA</i> (p. 362)	LETTUCE							R	M	M	M	M	M	M	M	
<i>L. serriola*</i>	Prickly wild lettuce	LASE	FACU	2				I	M						M	
<i>L tatarica</i> ssp. <i>pulchella</i>	Tatar blue lettuce	LATAP2	FAC	2												
<i>LAMIUM</i> (p. 838)	DEAD NETTLE															
<i>L. amplexicaule*</i>	Henbit dead nettle	LAAM								L	L	L	L			L
<i>LAPPULA</i> (p. 476)	STICKSEED															
<i>L. redowskii</i> and var.	Western stickseed	LARE		2				R	L	L					L	L
<i>LASTHENIA</i> (p. 364)	GOLDFIELDS															
<i>L. californica</i> and ssp.	California goldfields	LACA7	UPL							L	L	L	L			
<i>L. debilis</i>	Greene's goldfields	LEDE8									L	L				
<i>L. glaberrima</i>	Smooth goldfields	LAGL3	OBL					L		L	L				L	
<i>L. gracilis</i>	Common goldfields	LAGR								L	L	L				
<i>L. minor</i>	Coast goldfields	LAMI5	FACW	2				R	L	L	L	L	L			
<i>LATHYRUS</i> (N-fixing) (p. 758)	WILD PEA															
<i>L. brownii</i>	Brown's peavine	LABR2						M		M						M
<i>L. delnorticus</i>	Del Norte peavine	LADE3						M		M						M
<i>L. jepsonii</i> var. <i>californicus</i>	Calif. Tule pea	LAJEC2	OBL	4			I	M		M		M				
<i>L. lanzwertii</i> and var.	Nevada sweetpea	LALA3	UPL	4			I	M		M					M	M
<i>L. nevadensis</i> var. <i>nevadensis</i>	Sierra Nevada peavine	LANEN3		4			I	M		M						M
<i>L. sulphureus</i>	Sulphur pea	LASU								M		M				M
<i>LAYIA</i> (p. 368)	LAYIA															
<i>LAYIA</i> sp.					2					L	L	L	L	L	L	
<i>LEPIDIUM</i> (p. 550)	PEPPERGRASS															

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>L. campestre*</i>	Field pepperwort	LECA5										L	L	L		
<i>L. densiflorum</i>	Dense-flowered peppergrass	LEDE	FACU	2					L				L	L	L	
<i>L. montanum</i>	Mountain peppergrass	LEMO2													L	
<i>L. nitidum</i>	Shining peppergrass	LENI	FAC	2					L	L	L	L	L	L	L	
<i>L. perfoliatum*</i>	Perfoliate peppergrass	LEPE2	FACU	2					L	L	L	L			L	
<i>L. virginicum</i> and ssp.	Virginia peppergrass	LEVI3	FACU	2			L		L	L	L	L			L	
<i>LEPTODACTYLON</i> (Now <i>LINANTHUS</i>) (p. 1058)	<i>LINANTHUS</i>															
<i>L. californicum</i> (Now <i>LINANTHUS californicus</i>)	California prickly phlox	LICA35							L	L		L	L			
<i>L. pungens</i> (Now <i>LINANTHUS pungens</i>)	Granite gilia	LIPU11						L		L					L	L
<i>LEPTOSIPHON</i> (See <i>LINANTHUS</i>) (p. 1054)	<i>LEPTOSIPHON</i>															
<i>L. bicolor</i>	Bicolored leptosiphon	LEBI8	FACU	2			R		L			L	L	L	L	
<i>L. bolanderi</i>	Bolander's leptosiphon	LEBO9							L		L	L	L	L	L	
<i>L. ciliatus</i>	Whiskerbrush leptosiphon	LECI18						L		L		L	L	L	L	
<i>L. montanus</i>	Mustang clover	LEMO19										L			L	
<i>LEWISIA</i> Fam. MONTIACEAE from <i>PORTULACACEAE</i> (p. 906)	<i>BITTERROOT, LEWISIA</i>															
<i>L. glandulosa</i>	Glandular lewisia	LEG14	3	I		L	L									
<i>L. nevadensis</i>	Nevada lewisia	LENE5	3	I		L	L		L						L	
<i>L. rediviva</i> and var.	Common bitterroot	LERE7	3	I			L		L						L	
<i>L. triphylla</i>	Three-leaved lewisia	LETR2	3	I		L		L							L	
<i>LIGUSTICUM</i> (p. 183)	LICORICE-ROOT, WILD LOVAGE							L	L	L	L		L	L		

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<i>LILIUM</i> (p. 1390)	WILD LILY															
<i>L. humboldtii</i> and ssp.	Humboldt's tiger lily	LIHU								L			L	L		L
<i>L. kelleyanum</i>	Kelley's lily	LIKE	OBL	3	C	C		L	L							L
<i>L. pardalinum</i> and ssp.	California leopard lily	LIPA	FACW					L		L						L
<i>L. parvum</i>	Sierra tiger lily	LIPA3	OBL	3	C	C		L	L							L
<i>L. washingtonianum</i> and ssp.	Washington's lily	LIWA												L		L
<i>LIMNANTHES</i> (p. 863)	MEADOWFOAM															
<i>L. alba</i> and ssp.	White meadowfoam	LIAL3	FACW	2					L	L	L	L		L	L	L
<i>L. douglasii</i> and ssp.	Douglas's meadowfoam	LIDO2	OBL	2				L		L	L	L	L		L	L
<i>L. montana</i>	Mountain meadowfoam	LIMO2	OBL	2				L					L			L
<i>LIMOSELLA</i> (p. 1245)	MUDWORT															
<i>L. acaulis</i>	Stemless mudwort	LIAC2	OBL	2				L	L							L
<i>L. aquatica</i>	Water mudwort	LIAQ	OBL	2	R			L	L		L					L
<i>LINANTHUS</i> (Some moved to LEPTOSIPHON) (pp. 1058, 1054)	LINANTHUS, LEPTO-SIPHON															
<i>L. bicolor</i> (Now LEPTOSIPHON bicolor)	Bicolored leptosiphon	LEBI8	FACU	2			R				L		L	L		
<i>L. bolanderi</i> (Now LEPTOSIPHON bolanderi)	Bolander's leptosiphon	LEBO9								L		L	L	L		L
<i>L. ciliatus</i> (Now LEPTOSIPHON ciliatus)	Whiskerbrush leptosiphon	LECI18						L		L		L	L			L
<i>L. californicus</i>	California prickly phlox	LICA35							L	L		L	L			
<i>L. inyoensis</i>	Inyo linanthus, Inyo gilia	LIIN10												L	L	
<i>L. montanus</i> (Now LEPTOSIPHON montanus)	Mustang clover	LEMO19										L				L
<i>L. pungens</i>	Granite prickly phlox	LIPU11						L	L					L	L	
<i>LINUM</i> (p. 866)	FLAX															

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<i>L. biennae*</i>	Pale-flowered flax	LIBI5		2			R			M	M	M				
<i>L. lewisii</i>	Western blue flax	LILE10						M		M				M	M	
<i>LITHOPHRAGMA</i> (p. 1239)	WOODLAND STAR															
<i>L. affine</i>	Common woodland star	LIAF								M		M				
<i>L. bolanderi</i>	Bolander's woodland star	LIBO5					M			M		M				
<i>L. campanulatum</i>	Siskiyou Mtn. woodland star	LICA21								M		M				M
<i>L. cymbalaria</i>	Mission woodland star	LICY3							M	M		M	M			
<i>L. glabrum</i>	Bulbous woodland star	LIGL2						M		M				M		
<i>L. heterophyllum</i>	Hillside woodland star	LIHE								M		M		M		
<i>L. parviflorum</i>	Small-flowered woodland star	LIPA5						M		M		M		M	M	M
<i>L. tenellum</i>	Slender woodland star	LITE4						M		M					M	
<i>LOBELIA</i> (p. 594)	CARDINAL FLOWER															
<i>L. cardinalis</i> var. <i>pseudosplendens</i>	Red cardinal flower	LOCAP4	FACW	3	I			L		L						
<i>LOMATIUM SP.</i> (p. 184)	LOMATIUM															
									M	M	M	M	M	M	M	M
<i>LOTUS</i> (N-fixing) (Now <i>ACMISPON</i> , <i>HOSACKIA</i>) (pp. 762, 725, 728)	LOTUS, TREFOIL															
<i>L. argophyllum</i> (Now <i>ACMISPON argophyllum</i> and var.)	Silver bird's-foot trefoil	ACAR						H	H	H		H	H	H		
<i>L. corniculatus*</i>	Common Bird's-foot trefoil	LOCO6	FAC	2		R	R	H			H		H	H	H	
<i>L. crassifolius</i> (Now <i>HOSACKIA crassifolia</i> var. <i>crassifolia</i>)	Thick-leaved deervetch	HOCRC								H		H	H		H	
<i>L. denticulatus</i> (Now <i>ACMISPON denticulatus</i>)	Riverbar lotus	ACDE		2			R	H			H		H		H	

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<i>L. grandiflorus</i> (Now <i>ACMISPON grandiflorus</i> and var.)	Large-flowered trefoil	ACGR								M		M	M			
<i>L. humistratus</i> (Now <i>ACMISPON brachycarpus</i>)	Short-pod deervetch	ACBR							H	H	H	H	H			
<i>L. incanus</i> (Now <i>HOSACKIA incana</i>)	Woolly bird's-foot trefoil	HOIN3										H				H
<i>L. micranthus</i> (Now <i>ACMISPON parviflorus</i>)	Small-fld. deervetch	ACPA							H	H	H	H	H			H
<i>L. nevadensis</i> (Now <i>ACMISPON nevadensis</i>)	Nevada deervetch	ACNE	2			R			H			H	H		H	H
<i>L. oblongifolius</i> (Now <i>HOSACKIA oblongifolia</i>)	Streambank lotus	HOOB2	OBL	2	R	R		H		H		H	H		H	H
<i>L. oblongifolius</i> var. <i>cupreus</i> (Now <i>HOSACKIA o. cuprea</i>)	Copper-flowered hosackia	HOOBC		2			R	H	H			H				H
<i>Lotus pinnatus</i> (Now <i>Hosackia pinnata</i>)	Meadow bird's-foot trefoil	HOPI	FACW	2	R			H		H		H	H			H
<i>L. purshianus</i> var. <i>purshianus</i> (Now <i>ACMISPON americanus</i> var. <i>americanus</i>)	American bird's-foot trefoil	ACAMA	FACU	2		R	R	M		M	M		M			M
<i>L. salsuginosus</i> (Now <i>ACMISPON maritimus</i> var. <i>maritimus</i>)	Coastal bird's-foot trefoil	ACMAM								H	H		H	H		
<i>L. strigosus</i> (Now <i>ACMISPON strigosus</i>)	Strigose deervetch	ACST								H	H		H	H	H	H
<i>L. wrangelianus</i> (Now <i>ACMISPON wrangelianus</i>)	California calf lotus	ACWR								H	H	H	H	H	H	H
<i>LUPINUS</i> (N-fixing) (Most PO) (p. 764)	LUPINE															
<i>L. albicaulis</i>	Sickle-keel lupine	LUAL3							L		L		L			L
<i>L. albifrons</i> and var.	Silver bush lupine	LUAL4								L	L		L	L		
<i>L. andersonii</i>	Anderson's lupine	LUAN2							L		L					L
<i>L. arbustus</i>	Long-spurred lupine	LUAR6							L		L					L
<i>L. argenteus</i> and var.	Loose-flowered silver lupine	LUAR3							L							L
<i>L. benthamii</i>	Bentham's lupine	LUBE								L	L	L				
<i>L. bicolor</i>	Miniature lupine	LUBI								L	L	L	L			

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<i>L. breweri</i>	Brewer's lupine	LUBR3						L	L					L	L
<i>L. covillei</i>	Coville's lupine	LUCO4	FACU	3		I		L							L
<i>L. formosus</i>	Summer lupine	LUFO2								L	L	L			
<i>L. latifolius</i> and var.	Broad-leaved lupine	LULA4	FAC	3	I	I	I	L	L	L	L			L	L
<i>L. lepidus</i> and var.	Dwarf lupine, Pacific Lupine	LULE2		3		I	I	L		L				L	L
<i>L. nanus</i>	Annual sky Lupine	LUNA3							L	L	L	L			
<i>L. nevadensis</i>	Nevada lupine	LUNE												L	
<i>L. polyphyllus</i> var. <i>burkei</i>	Large-leaf lupine	LUPOB3	FAC	3	I	I		L	L	L				L	L
<i>L. pratensis</i>	Inyo meadow lupine	LUPR		3		I		L	L					L	L
<i>L. succulentus</i>	Succulent annual lupine	LUSU3								L	L	L			
<i>MACHAERANTHERA</i> (See <i>DIETERIA</i>) (p. 300)		TANSY-ASTER													
<i>M. canescens</i> (Now <i>DIETERIA canescens</i> and var.)	Hoary tansy-aster	DICA18	FAC	2				R	L	L	L			L	
<i>MADIA</i>	(p. 378)	TARWEED													
<i>M. bolanderi</i> (Now <i>KYHOSIA bolanderi</i>)	(p. 362)	Bolander's kyhosia	KYBO		2		I	I	L		L				L
<i>M. elegans</i>	Common madia	MAEL							L	L	L	L		L	L
<i>M. exigua</i>	Small tarweed	MAEX								L	L	L		L	
<i>M. glomerata</i>	Mountain tarweed	MAGL2	FACU	2		R	R	L		L				L	L
<i>M. gracilis</i>	Slender tarweed	MAGR3								L		L		L	L
<i>M. sativa</i>	Coast tarweed	MASA		2		R	R			L	L	L			
<i>M. yosemitana</i> (Now <i>JENSIA yosemitana</i>)	(p. 361)	Yosemite jensia	JEYO	FACU	2		R	R							L

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MAIANTHEMUM (See SMILACINA) (p. 1504)	FALSE SOLOMON'S SEAL															
<i>M. racemosum</i>	Feathery false solomon's plume	MARA	FAC	2				I	L			L				L
<i>M. stellatum</i>	Starry false solomon's seal	MAST4	FAC	2				I	L			L		L	L	L
MALVA (p. 886)	MALLOW															
<i>M. neglecta</i> *	Common mallow	MANE		2				R			L	L	L	L	L	L
<i>M. parviflora</i> *	Small-flowered mallow	MAPA5		2				R			L	L	L	L	L	L
MARAH (p. 680)	MAN-ROOT, WILD CUCUMBER															
<i>M. fabaceus</i>	California man-root	MAFA						L		L	L		L	L		
<i>M. horrida</i>	Sierra man-root	MAHO									L		L			
<i>M. oregana</i>	Oregon man-root	MAOR									L					L
MARRUBIUM (p. 839)	HOREHOUND															
<i>M. vulgare</i> *	Common horehound	MAVU	FACU	2				R	L		L	L	L	L	L	
MEDICAGO (N-fixing) (p. 779)	ALFALFA, MEDICK															
<i>M. arabica</i> *	Spotted medick	MEAR		2				R			H	H	H	H		
<i>M. lupulina</i> *	Black medick	MELU	FACU	2		R		R	H		H	H	H		H	H
<i>M. minima</i> *	Small burclover	MEMI		2				R			H		H			
<i>M. polymorpha</i> *	Calif. Burclover	MEPO3	FACU	2				R			H	H	H	H		H
<i>M. sativa</i> *	Common alfalfa	MESA	UPL	2				R			H	H	H			
MELILOTUS (N-fixing) (p. 780)	SWEETCLOVER															
<i>M. albus</i> *	White sweet clover	MEAL2		2				R			H	H	H	H	H	H
<i>M. officinalis</i> *	Yellow sweet clover	MEOF	FACU	2				R			H	H	H	H	H	H

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<i>MENTHA</i> (p. 840)	MINT																
<i>M. aquatica*</i>	Water mint	MEAQ	FACW	3	I	I		M			M		M				
<i>M. arvensis*</i>	Common field mint	MEAR4	FACW	3	I	I		M			M		M		M	M	
<i>M. canadensis</i>	Canada mint	MECA7		3			I	M			M		M		M	M	
<i>M. pulegium*</i>	Pennyroyal mint	MEPU	OBL	3	I			M			M	M	M			M	
<i>M. spicata*</i>	Spearmint	MESP3	FACW	3	I	I		M			M		M			M	
<i>MENTZELIA</i> (p. 869)	BLAZING STAR																
<i>M. albicaulis</i>	Whitestem blazing star	MEAL6						L		L		L	L	L	L	L	
<i>M. crocea</i>	Sierra blazing star	MECR									L		L				
<i>M. dispersa</i>	Bushy blazing star	MEDI						L			L	L	L	L	L	L	
<i>M. laevicaulis</i>	Smooth-stem blazing star	MELA2									L	L	L	L	L	L	
<i>M. lindleyi</i>	Lindley's blazing star	MELI4								L	L	L	L				
<i>MERTENSIA</i> (p. 478)	BLUEBELL																
<i>M. bella</i>	Oregon lungwort	MEBE	FACW	4		I		L								L	
<i>M. ciliata</i> var. <i>stomatechoides</i>	Streamsider bluebells	MECIS	FACW	4	I	I		L	L							L	L
<i>M. longiflora</i>	Long-flowered bluebells	MELO4		4		I										L	L
<i>M. oblongifolia</i> and var.	Sagebrush bluebells	MEOB	FAC	4		I	I									L	L
<i>MICRANTHES</i> (See SAXIFRAGA) (p. 1240)	SAXIFRAGE																
<i>M. aprica</i>	Sierra saxifrage	MIAP	FAC	3	I	I		M	M							M	
<i>M. bryophora</i>	Bud saxifrage	MIBR		3	I	I		M	M							M	
<i>M. californica</i>	California saxifrage	MICA	FACW	3	I					M	M		M			M	
<i>M. nidifica</i>	Peak saxifrage	MINI	FACW	3	I	I			M		M					M	M
<i>M. odontoloma</i>	Brook saxifrage	MIOD2	FACW	3	I			M	M		M						

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<i>M. oregana</i>	Oregon bog saxifrage	MIOR2	FACW	3	I	I		M	M						M	M
<i>M. tolmiei</i>	Tolmie's saxifrage	MITO	FAC	3				I	M	M		M				
<i>MICROPUS</i> (p. 286)	SLENDER COTTON-SEED, Q-tips															
<i>M. californicus</i> and var.	Slender cottontop	MICA	FACU	2				R		L	L	L	L	L	L	L
<i>MICROSERIS</i> (p. 387)	SILVERPUFFS															
<i>M. acuminata</i>	Sierra foothill silverpuffs	MIAC								L	L	L				
<i>M. laciniata</i>	Cut-leaf silverpuffs	MILA	FACU	2				R	L			L	L		L	L
<i>M. nutans</i>	Nodding silverpuffs	MINU		2	R			R		L		L			L	L
<i>M. sylvatica</i>	Woodland silverpuffs	MISY										L	L	L		
<i>MIMULUS</i> Fam. PHRYMACEAE from SCOPHULARIACEAE (p. 988)	MONKEYFLOWER															
<i>M. breweri</i>	Brewer's monkeyflower	MIBR5	FACU	2				R		L	L				L	L
<i>M. cardinalis</i>	Scarlet monkeyflower	MICA12	FACW	3	I				L			L		L		L
<i>M. floribundus</i>	Floriferous monkeyflower	MIFL2	OBL	2	R				M				M	M		M
<i>M. guttatus</i>	Seep-spring monkey-flower	MIGU	OBL	3	I	I		M	M	M	M	M	M	M	M	M
<i>M. lewisii</i>	Lewis's monkeyflower	MILE2	FACW	3	I			M	M							M
<i>M. moschatus</i>	Musk monkeyflower	MIMO3	OBL	2	I	I		M		M	M		M		M	M
<i>M. primuloides</i> and var.	Primrose monkeyflower	MIPR	OBL	2	I	I		M	M		M				M	M
<i>M. tilingii</i>	Large Mtn. monkeyflower	MITI	OBL	2	I	I		M	M		M					
<i>M. torreyi</i>	Torrey's monkeyflower	MITO											L	L		L
<i>M. tricolor</i>	Tricolored monkeyflower	MITR3	OBL	2	R			L		L	L	L				

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<i>MINUARTIA</i> (p. 611)	SANDWORT									L		L	L	L	
<i>M. californica</i>	California sandwort	MICA7	FACU												L
<i>M. douglasii</i>	Douglas' sandwort	MIDO3								L		L	L	L	L
<i>M. obtusiloba</i>	Alpine sandwort	MIOB2	FACU					L	L						
<i>M. rubella</i>	Boreal sandwort	MIRU3	FACU					L		L					
<i>M. stricta</i>	Bog sandwort	MIST5	FAC	2		I		L							
<i>MOEHRINGIA</i> (p. 612)	SANDWORT														
<i>M. macrophylla</i>	Large-leaf sandwort	MOMA3	FACU	2		I				L					L
<i>MONARDELLA</i> (p. 842)	MONARDELLA														
<i>M. candicans</i>	Sierra monardella	MOCA3										M	M		M
<i>M. breweri</i> ssp. <i>lanceolata</i> (Formerly <i>M. lanceolata</i>)	Brewer's mustang mint	MOBRL						M		M		M	M		
<i>M. macrantha</i> and ssp.	Large-fld. Monardella	MOMA							M	M		M	M		M
<i>M. odoratissima</i> and ssp.	Mountain monardella	MOOD	UPL					M						M	M
<i>M. purpurea</i>	Siskiyou monardella	MOPU							M		M	M	M	M	M
<i>M. sheltonii</i>	Shelton's coyote mint	MOSH						M	M		M	M		M	
<i>M. villosa</i> and ssp.	Common coyote mint	MOVI2						M	M		M			M	
<i>MONTIA</i> FAM: <i>MONTIACEAE</i> from <i>PORTULACACEAE</i> (p. 908)	MONTIA, MINER'S LETTUCE														
<i>M. chamissoi</i>	Chamisso's montia	MOCH	OBL	2	I	I		M	M		M			M	M
<i>M. fontana</i>	Annual water miner's lettuce	MOFO	FACW	2	R			M	M		M		M		M
<i>M. linearis</i>	Narrow-leaf montia	MOLI4	FAC	2	R	R		M			M	M	M		M
<i>M. parvifolia</i>	Little-leaf montia	MOPA2	FAC	2		I		M			M	M		E	

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<i>MYOSURUS</i> sp. (p. 1142)	MOUSETAIL							L		L	L	L		L	L		
<i>NAMA</i> sp. (p. 480)	PURPLE MAT														L	L	
<i>NASTURTIUM</i> (See <i>RORIPPA</i>) (p. 557)	WATERCRESS																
<i>N. officinale</i>	White watercress	NAOF	OBL	2	I			L	L		L				L		
<i>NAVARRETIA</i> (See <i>GILIA</i>) (p. 1062)	NAVARRETIA																
<i>N. capillaris</i>	Miniature navarretia	NACA6	FAC	2				R	L	L		L				L	
<i>N. intertexta</i>	Needleleaf navarretia	NAIN2	FACW	2		R		R	L	L		L	L	L		L	L
<i>N. leptalea</i> and ssp.	Bridge's gilia	NALE5							L					L	L	L	
<i>NEMOPHILA</i> (p. 481)	NEMOPHILA																
<i>N. brevifolia</i>	Great Basin nemophila	NEBR		2		R		R	M							M	
<i>N. heterophylla</i>	Small white nemophila	NEHE							M			M		M	M	M	
<i>N. maculata</i>	Five-spot nemophila	NEMA		2		R		M	M			M	M			M	
<i>N. menziesii</i> and var.	Baby-blue-eyes	NEME									M	M	M	M	M	M	
<i>N. parviflora</i> and var.	Small-flowered ne-mophila	NEPA		2		R				M	M	M	M		M	M	
<i>N. pedunculata</i>	Meadow nemophila	NEPE	FAC	2		R				M	M	M	M		M	M	
<i>N. pulchella</i> and var.	Eastwood's baby blue-eyes	NEPU2						M			M		M	M		M	
<i>N. spatulata</i>	Sierra baby-blue-eyes	NESP						M	M				M			M	
<i>NICOTIANA</i> (p. 1253)	WILD TOBACCO																
<i>N. acuminata</i> var. <i>multiflora</i> *	Many-flowered tobacco	NIACM						L			L	L	L		L		

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<i>N. attenuata</i>	Coyote tobacco	NIAT	FACU	2								L	L	L		L
<i>N. quadrivalvis</i>	Indian tobacco	NIQU	FACU	2								L	L	L	L	L
<i>OENOTHERA</i> (p. 949)	EVENING PRIMROSE															
Oenothera spp.									L	L	L	L	L	L	L	L
<i>OLSYNIUM</i> (See <i>SISYRINCHIUM</i>) (p. 1360)	PURPLE-EYED GRASS															
<i>O. douglasii</i> var. <i>douglasii</i>	Purple-eyed grass	OLDOD	FACU	3								M	M		M	M
<i>OREOSTEMMA</i> (See <i>ASTER</i>) (p. 392)	ASTER															
<i>O. alpinum</i> ssp. <i>andersonii</i>	Anderson's Mtn. crown aster	ORALA3	FAC	3	R				M	M		M				
<i>O. peirsonii</i>	Peirson's Mtn. crown aster	ORPE4			R			R	M	M						
<i>ORTHOCARPUS</i> Fam: <i>OROBANCHACEAE</i> from <i>SCROPHULARIACEAE</i> (p. 972)	OWL'S CLOVER															
<i>O. bracteosus</i>	Rosy owl's clover	ORBR	FACW	2	I											M
<i>O. cuspidatus</i> and ssp.	Broad-scaled owl's clover	ORCU							M		M					M M
<i>O. imbricatus</i>	Mountain owl's clover	ORIM			I	R	M		M							M
<i>O. luteus</i>	Yellow owl's clover	ORLU2	FACU	2	I	R	M	M								M
<i>OSMORHIZA</i> (p. 193)	SWEET-CICELY															
<i>O. bertero</i>	Mountain sweet-cicely	OSBE	FACU	3								H		H	H	H
<i>O. brachypoda</i>	California sweet-cicely	OSBR						H				H				H
<i>O. bertero</i> (Formerly <i>O. chilensis</i>)	Mountain sweet-cicely	OSBE	FACU	3				H				H				H H
<i>O. occidentalis</i>	Western sweet-cicely	OSOC						H	H			H		H	H	H
<i>O. purpurea</i>	Purple sweet-cicely	OSPU	FAC	3								H				H

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<i>OXYPOLIS</i> (p. 193)	COWBANE															
<i>O. occidentalis</i>	Western cowbane	OXOC	OBL	3	C			M		M						M
<i>OXYTROPIS</i> (PO) (p. 782)	LOCOWEED															
<i>O. borealis</i> and var.	Boreal locoweed	OXBO						L	L							
<i>O. parryi</i>	Parry's locoweed	OXPA2	FACU						L							
<i>PACKERA</i> (See <i>SENECIO</i>) (p. 393)	GROUNDSEL															
<i>P. cana</i>	Woolly ragwort	PACA15		3	I	I			L						L	L
<i>P. pauciflora</i>	Alpine rayless ragwort	PAPA19	FAC	3	I	I	I	L								L
<i>P. subnuda</i>	Alpine meadow groundsel	PASU	FACW	3	I	I		L	L						L	L
<i>P. werneriiifolia</i>	Hoary groundsel	PAWE4							L							
<i>PAEONIA</i> (p. 978)	PEONY															
<i>P. brownii</i>	Western peony	PABR							L	L					L	L
<i>P. californica</i>	California peony	PACA2								L	L				L	
<i>PAPAVER</i> (p. 985)	POPPY															
<i>P. californicum</i>	California fire poppy	PACA9								L		L	L	L		
<i>P. heterophyllum</i>	California wind poppy	PAHE								L	L	L	L			
<i>PEDICULARIS</i> (p. 975)	LOUSEWORT															
<i>P. attolens</i>	Little elephant's head	PEAT	OBL	3	I	I		L	L						L	L
<i>P. contorta</i>	Curved-beak lousewort	PECO	FACU	3				I	L	L						L
<i>P. densiflora</i>	Warrior's plume	PEDE									L		L	L		L
<i>P. groenlandica</i>	Elephant's head	PEGR2	OBL	3	I	I		L	L							L
<i>P. racemosa</i>	Sickle-top lousewort	PERA								L						L
<i>P. semibarbata</i>	Pine-woods lousewort	PESE2							L	L						L

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PENSTEMON Fam: PLANTAGINACEAE from SCROPHULARIACEAE (p. 1017)	PENSTEMON															
<i>P. angineus</i>	Siskiyou penstemon	PEAN3										M				M
<i>P. azureus</i> and var.	Azure penstemon	PEAZ										M			M	M
<i>P. centralesfolius</i>	California scarlet bugler	PECE2										M		M	M	
<i>P. deustus</i> and var.	Hot-rock penstemon	PEDE4							M							M M
<i>P. gracilens</i>	Slender beardtongue	PEGR4							M							M M
<i>P. heterodoxus</i> and var.	Sierra beardtongue	PEHE2	FACU	3			I	M	M							M
<i>P. laetus</i> and var.	Mtn. blue penstemon	PELA7						M					M		M M	
<i>P. newberryi</i> and var.	Mountain pride pen-stemmon	PENE3		3					M		M					M
<i>P. parvulus</i>	Short-stalked penstemon	PEPA11							M				M			M
<i>P. patens</i>	Owen's valley penstemon	PEPA27							M							M
<i>P. rydbergii</i> var. <i>oreocharis</i>	Rydberg's penstemon	PERYO	FACU	3	I	I	I	M	M							M M
<i>P. speciosus</i>	Showy penstemon	PESP							M		M					M M
PERIDERIDIA (p. 194)	YAMPAH															
<i>P. bolanderi</i> and ssp.	Bolander's yampah	PEBO2		2		I	I		M				M		M M	
<i>P. gairdneri</i> and ssp.	Gairdner's yampah	PEGA3	FAC	2		I	I	M	M		M	M				M
<i>P. howellii</i>	Howell's yampah	PEHO5	FACW	2		I		M			M		M			M
<i>P. kelloggii</i>	Kellogg's yampah	PEKE										M	M	M M		
<i>P. lemmonii</i>	Lemmon's yampah	PELE5						L								M
<i>P. oregana</i>	Oregon yampah	PEOR6									M					M M
<i>P. parishii</i> and ssp.	Parish's yampah	PEPA21	FAC	2	I	I	I		M		M					M

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<i>P. pringlei</i>	Pringle's yampah	PEPR5								M	M		M	M		
<i>PERSICARIA</i> (See <i>POLYGONUM</i>) (p. 1115)	WATER SMARTWEED															
<i>P. amphibia</i>	Water smartweed	PEAM	OBL	4	I			L	L		L					
<i>P. maculosa*</i>	Spotted lady's thumb	PEMA	FACW	2	R			L			L					
<i>PHACELIA</i> Fam: <i>BORAGINACEAE</i> from <i>HYDRO-PHYLLACEAE</i> (p. 485)	PHACELIA															
<i>P. bicolor</i> var. <i>bicolor</i>	Bi-colored phacelia	PHBIB2						L						L		
<i>P. californica</i>	California coast phacelia	PHCA								L	L		L	L		
<i>P. cicutaria</i> and var.	Caterpillar phacelia	PHCI								L	L	L	L	L		
<i>P. egena</i>	Kaweah River phacelia	PHEG						L			L	L	L	L	L	
<i>P. hastata</i> and ssp.	Silver-leaf phacelia	PHHA						L							L	L
<i>P. heterophylla</i> ssp. <i>virgata</i>	Virgate phacelia	PHHEV	FACU								L		L	L	L	L
<i>P. hydrophyloides</i>	Water-leaf phacelia	PHHY		3	I	I		L		L					L	L
<i>P. ramosissima</i>	Branching phacelia	PHRA2	FACU					L	L		L	L	L	L	L	L
<i>PHALACROSERIS</i> (p. 401)	MOCK DANDELION															
<i>P. bolanderi</i>	Bolander's mock dandelion	PHBO2	OBL	2	I	I		M	M							M
<i>PHLOX</i> (p. 1068)	PHLOX															
<i>P. adsurgens</i>	Woodland phlox	PHAD2									L					L
<i>P. diffusa</i>	Spreading phlox	PHDI13							L	L						L
<i>P. douglasii</i>	Douglas' phlox	PHDO3											L		L	
<i>P. hoodii</i> ssp. <i>canescens</i>	Hood's phlox, Spiny phlox	PHHOC						L							L	
<i>P. speciosa</i>	Western showy phlox	PHSP								L		L	L	L	L	

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<i>PLAGIOTHYRS</i> (p. 502)	POPCORN FLOWER															
<i>P. hispidulus</i>	Marsh popcorn flower	PLHI7		2		R	R	M	M		M		M	M	M	M
<i>P. leptocladus</i>	Finebranched popcorn flower	PLLE	FACW	2	R	R		M		M	M	M	M	M	M	M
<i>PLANTAGO</i> (p. 1026)	PLANTAIN															
<i>P. elongata</i>	Longleaf plantain	PLEL	FACW							M	M	M				
<i>P. erecta</i>	California dwarf plantain	PLER3								M	M	M	M			
<i>P. lanceolata*</i>	English plantain	PLLA	FACU							M	M	M	M		M	
<i>P. major</i>	Broad-leaf plantain	PLMA2	FAC							M	M	M	M		M	
<i>PLATANTHERA</i> (p. 1404)	BOG ORCHID															
<i>P. tescamis</i> (Formerly <i>P. hyperborea</i> (Not in CA))	Intermountain rein orchid	PLTE	OBL					L	L						L	L
<i>P. dilatata</i> var. <i>leucostachys</i> (Formerly <i>P. leucostachys</i>)	White bog orchid	PLDIL	FACW	3	C	C		L	L	L	L	L			L	L
<i>P. sparsiflora</i>	Sparse-flowered bog orchid	PLSP2	FACW	3	C	C		L	L		L				L	L
<i>P. stricta</i>	Slender bog orchid	PLST4	FACW	3	C	C		L							L	L
<i>P. yosemitensis</i>	Yosemite bog orchid	PLYO2	FACW	3	C	C		L								
<i>PLATYSTEMON</i> (p. 985)	CREAM CUPS															
<i>P. californicus</i>	California cream cups	PLCA5									L	L	L	L		
<i>PLECTRITIS</i> (p. 1264)	SEA BLUSH															
<i>PLECTRITIS</i> sp.										L	L		L	L	L	
<i>POLYGONUM</i> (p. 1116)	KNOTWEED															
<i>P. amphibium</i> (Now <i>PERSICARIA amphibia</i>) (p. 1115)	Water smartweed	PEAM8	OBL	2				L	L		L					

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>P. aviculare</i> and ssp.* (Formerly <i>P. arenastrum</i>)	Prostrate knotweed	POAV	FAC	2				R	L			L				
<i>P. bistortoides</i> (Now <i>BISTORTA bistortoides</i>) (p. 1077)	Western bistort	BIBI5	FACW	3	I	I			L	L		L		L		L
<i>P. californicum</i>	California knotweed	POCA7		2				R				L		L		L
<i>P. davisiae</i> (Now <i>ACONOGONON davisiae</i>) (p. 1076)	Davis's knotweed	ACDA								L	L					L
<i>P. douglasii</i>	Douglas's knotweed	PODO4	FACU	2			R	R	L	L		L				L
<i>P. minimum</i>	Broadleaf knotweed	POMI2	FACU						L	L		L				L
<i>P. persicaria</i> * (Now <i>PERSICARIA maculosa</i>) (p. 1115)	Spotted lady's thumb	PEMA	FACW	2	R	R			L			L				
<i>P. phytolaccifolium</i> (Now <i>ACONOGONON phytolac-</i> (p. 1076)	Poke knotweed	ACPH2	FAC	3				I		L		L				L L
<i>P. polypaloides</i> and ssp.	Polygala knotweed	POPO4	FACW	2	R	R	R	L	L			L				L L
<i>POTENTILLA</i> (p. 1191)	CINQUEFOIL															
<i>P. anserina</i>	Silver cinquefoil	POAN5	OBL	3	I	I		L			L					L L
<i>P. biennis</i>	Biennial cinquefoil	POBI7	FACW	2	R	R			L		L					L
<i>P. breweri</i>	Brewer's cinquefoil	PHBR6	FAC	3	I	I	I		L							L L
<i>P. drummondii</i>	Drummond's cinquefoil	PODR	FAC	3		I			L	L		L				L L
<i>P. flabellifolia</i>	Fan-leaf cinquefoil	POFL3	FAC	3		I			L							L
<i>P. glandulosa</i> (Now <i>DRYMOCALLIS glandulosa</i> and var.) (p. 1175)	Sticky cinquefoil	DRGL7	FAC	3		I	I	L	L	L	L		L		L L	
<i>P. gracilis</i> and var.	Slender cinquefoil	POGR9	FAC	3	I	I	I	L	L			L		L		L L
<i>P. millefolia</i>	Feathery cinquefoil	POMI4	FACW	2	R	R		L								L L
<i>P. palustris</i> (Now <i>COMARUM palustre</i>) (p. 1172)	Purple marsh cinquefoil	COPA28	OBL	3	I	I		L			L					
<i>P. wheeleri</i>	Wheeler's cinquefoil	POWH							L	L	L					L

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POTERIDIUM (See SANGUISORBA) (p. 1195)	BURNET															
P. annum	Annual western burnet	POAN16						L	L	L	L	L	L	L	L	L
PRIMULA (Includes DODECATHEON) (p. 1129)	SHOOTING STAR															
P. clevelandii and ssp. (Formerly DODECATHEON clevelandii and ssp.)	Padre's shooting star	PRCL								M	M	M	M			
P. conjugens (Formerly DODECATHEON conjugens)	Bonneville shooting star	PRCO	FACU	4	I	I									M	
P. fragrans (Formerly DODECATHEON redolens)	Scented shooting star	PRFR	OBL					M	M		M					M
P. hendersonii (Formerly DODECATHEON hendersonii)	Henderson's shooting star	PRHE								M	M	M	M			
P. jeffreyi (Formerly DODECATHEON jeffreyi)	Sierra shooting star	PRJE	FACW	4	I	I		M	M							M
P. subalpinum (Formerly DODECATHEON subalpinum)	Subalpine shooting star	PRSU	FACU	4	I	I		M						M	M	
P. tetranda (Formerly DODECATHEON alpinum)	Alpine shooting star	PRTE	FACW	4	C	C		M	M		M					M
PRUNELLA (p. 852)	SELF-HEAL															
P. vulgaris var. lanceolata	Lance self-heal	PRVUL2	FACU	2	R	R		M			M		M	M	M	M
P. vulgaris var. vulgaris*	Common self-heal	PRVUV	FACU	2	R	R		M			M		M	M	M	M
PSEUDOGNAPHALIUM (See GNAPHALIUM) (p. 405)	CUDWEED, EVER-LASTING															
P. californicum	California cudweed	PSCA13								L		L	L	L		L
P. canescens	Wright's cudweed	PSCA11	FACU	2				R			L		L	L		L
P. stramineum	Cotton-batting plant	PSST7	FAC	2				R					L	L	L	
PSEUDOSTELLARIA (p. 615)	STARWORT															
P. jamesiana	Tuber starwort	PSJA2			I			M	M		M				M	M
P sierrae	Sierra starwort	PSSI5			I											M

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<i>PTERIDIUM</i> (PO) (p. 116)	BRACKEN FERN															
<i>P. aquilinum</i> var. <i>pubescens</i>	Western bracken fern	PTAQP2	FACU	3		I	I	L	L	L	L		L		L	L
<i>RAFINESQUIA</i> (p. 411)	CHICORY															
<i>R. californica</i>	California chicory	RACA								L	L		L	L	L	
<i>RANUNCULUS</i> (p. 1144)	BUTTERCUP															
<i>R. alismifolius</i> and var.	Water plantain buttercup	RAAL	FACW	2	R	R		L	L		L				L	L
<i>R. aquatilis</i> and var.	White water buttercup	RAAQ	OBL	2	I	I		L			L		L		L	L
<i>R. californicus</i> and var.	California buttercup	RACA2	FAC							L	L	L	L			L
<i>R. canus</i> and var.	Sacramento valley buttercup	RACA3	FAC	2	R	R		L			L	L			L	
<i>R. cymbalaria</i>	Alkali buttercup	RACY	OBL					L	L		L		L		L	L
<i>R. escholtzia</i> and var.	Escholtz's buttercup	RAES	FACW	2	I	I		L	L		L					
<i>R. flammula</i>	Creeping buttercup	RAFL2	FACW	2	I	I		L			L				L	L
<i>R. glaberrimus</i> and var.	Sagebrush buttercup	RAGL	FACU	2	R	R			M						M	M
<i>R. occidentalis</i> and var.	Western buttercup	RAOC	FACW	2	R	R		L	L		L				L	L
<i>R. orthorhynchus</i>	Straight-beak buttercup	RAOR	FACW	2	R	R	R	L	L		L		L		L	
<i>R. scleratus</i> and var.* (PO)	Celery-leaved buttercup	RASC3	OBL	2	R	R		L				L			L	
<i>RAPHANUS</i> (p. 560)	RADISH															
<i>R. sativus</i> *	Common radish	RASA2								L	L	L	L		L	
<i>RORIPPA</i> (p. 561)	YELLOW CRESS															
<i>R. curvipes</i>	Blunt-leaved yellow cress	ROCU2	FACW	2	R			L	L							
<i>R. curvisiliqua</i>	Curved-pod yellow cress	ROCU2	OBL	2	R	R		L	L		L		L		L	

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<i>R. nasturtium-aquaticum</i> (Now <i>NASTURTIUM officinale</i>) (p. 557)	White water cress	NAOF	OBL	2	I			M		M		M		M		
<i>R. palustris</i> and ssp.	Marsh yellow cress	ROPA2	OBL	2	R			L						L		
<i>RUDBECKIA</i> (p. 412)	CONEFLOWER															
<i>R. californica</i>	California coneflower	RUCA3	FACU	3				I	L	L						
<i>R. glaucescens</i>	Waxy coneflower	RUGL7	FACU	3		I	I	L		L						
<i>R. hirta</i> var. <i>pulcherrima</i> *	Black-eyed susan	RUHIP	FACU	3		R	R	L					L		L	
<i>R. klamathensis</i>	klamath coneflower	RUKL	FACW	3		I	I	L							L	
<i>R. occidentalis</i>	Western coneflower	ROOC2	FAC	3		I	I	L							L	
<i>RUMEX</i> (p. 1122)	DOCK, SORREL															
<i>R. acetosella</i> *	Common sheep sorrel	RUAC3	FACU	3	R	R		L	L	L	L	L	L	L	L	L
<i>R. californicus</i> (Formerly <i>R. salicifolius</i> var. <i>denticulatus</i>)	California willow dock	RUCA8	FACW	3	R	R		L		L						
<i>R. crispus</i> *	Curly dock, Crisped dock	RUCR	FAC	3	I	I	I	L		L	L	L	L	L		
<i>R. obtusifolius</i> *	Broad-leaved dock, bitter dock	RUOB	FAC	3			R	L		L						
<i>R. paucifolius</i>	Alpine sheep sorrel	RUPA6	FAC	3	R			L	L						L	L
<i>R. salicifolius</i>	Willow-leaf dock	RUSA	FACW	3		I		M	M		M		M		M	M
<i>R. triangulivalvis</i> (Formerly <i>R. salicifolius</i> var. <i>triangulivalvis</i>)	Triangle-- fruited dock	RUTR3	FAC	3		I				L		L		L	L	
<i>SAGINA</i> (p. 615)	PEARLWORT															
<i>S. apetala</i> *	Dwarf pearlwort	SAAP	FAC	2			R	L		L	L					
<i>S. decumbens</i> ssp. <i>occidentalis</i>	Western pearlwort	SADEO	FACU	2			R	L		L	L	L	L	L	L	
<i>S. saginoides</i>	Arctic pearlwort	SASA	FACW	2	R	R		L	L	L				L	L	

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SALSOLA (p. 646)	RUSSIAN THISTLE															
<i>S. paulsenii*</i>	Barbwire Russian thistle	SAPA8								L	L	L				L
<i>S. tragus*</i>	Common Russian thistle	SATR12	FACU							L	L	L	L			L
SALVIA (p. 852)	SAGE															
<i>S. carduacea</i>	Thistle sage	SACA8								L	L	L				
<i>S. columbariae</i>	California chia sage	SACO6								L	L	L	L	L		
<i>S. spathacea</i>	CA hummingbird sage	SASP3								L	L		L	L	L	
SANGUISORBA (p. 1204)	Burnet															
<i>S. occidentalis</i> (Now <i>POTERIDIUM annuum</i>) (p. 1195)	Annual western burnet	POAN16		2				R	L		L					L L
SANICULA (p. 197)	SANICLE															
<i>S. arctopoides</i>	Yellowmats	SAAR9								L	L					
<i>S. bipinnata</i> (PO)	Poison sanicle	SABI2									L	L	L			
<i>S. bipinnatifida</i>	Purple sanicle	SABI3									L	L	L	L	L	
<i>S. crassicaulis</i>	Pacific sanicle	SACR2									L	L	L			
<i>S. graveolens</i>	Sierra sanicle	SAGR5									L				L L	
<i>S. laciniata</i>	Coast sanicle	SALA7								L						L
<i>S. tuberosa</i>	Tuberous sanicle	SATU								L		L L				L
SAXIFRAGA (Most spp. moved to <i>MICRANTHES</i>) (pp. 1240, 1242)	SAXIFRAGE															
<i>S. aprica</i> (Now <i>MICRANTHES aprica</i>)	Sierra saxifrage	MIAP	FAC	3				I	M	M						
<i>S. bryophora</i> (Now <i>MICRANTHES bryophora</i>)	Bud saxifrage	MIBR			3	I	I	I	M	M						M
<i>S. californica</i> (Now <i>MICRANTHES californica</i>)	California saxifrage	MICA	FACW	3	I						M M		M			M

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<i>S. mertensiana</i>	Merten's woodland saxifrage	SAME7	FACW						M	M					M	
<i>S. nidifica</i> (Now <i>MICRANTHES nidifica</i>)	Peak saxifrage	MINI	FACW	3	I	I			M		M				M	M
<i>S. odontoloma</i> (Now <i>MICRANTHES odontoloma</i>)	Brook saxifrage	MIOD2	FACW	3	I			M	M		M					
<i>S. oregana</i> (Now <i>MICRANTHES oregana</i>)	Oregon bog saxifrage	MIOR2	FACW	3	I	I		M	M		M				M	M
<i>S. tolmiei</i> (Now <i>MICRANTHES tolmiei</i>)	Tolmie's alpine saxifrage	MITO	FAC	3			I	M	M		M					
<i>SCEPTRIDIUM</i> (See <i>BOTRYCHIUM</i>) (p. 123)	GRAPE-FERN															
<i>S. multifidum</i>	Leather grape-fern	SCMU11	FAC	2				L							L	
<i>SCUTELLARIA</i> (p. 856)	SKULLCAP															
<i>S. bolanderi</i>	Bolander's skullcap	SCBO2	FACW					L			L		L	L	L	
<i>S. californica</i>	California skullcap	SCCA3									L		L			L
<i>S. nana</i>	Dwarf skullcap	SCNA														L
<i>S. siphocampyloides</i>	Gray-leaved skullcap	SCSI	FACU					L			L		L			L
<i>S. tuberosa</i>	Tuberous skullcap	SCTU2						L		L	L		L	L		L
<i>SENECIO</i> (PO) (p. 415)	GROUNDSEL, RAG-WORT															
<i>S. aronicoides</i>	California rayless ragwort	SEAR4						L			L		L	L	L	L
<i>S. canus</i> (Now <i>PACKERA cana</i>)	Woolly ragwort	PACA15						L	L							L
<i>S. clarkianus</i>	Clark's ragwort	SECL	FACW	4		I		L								L
<i>S. cymbalariaeoides</i> (Now <i>PACKERA subnuda</i>)	Alpine meadow groundsel	PASU	FACW	3	I			L	L							L
<i>S. hydrophiloides</i>	Sweet marsh ragwort	SEHY	FACW	4	I	I		L								L
<i>S. hydrophyllus</i>	Alkali marsh ragwort	SEHY2	OBL	4	I	I		L			L					L
<i>S. integrerrimus</i> and var.	Lambstongue groundsel	SEIN2	FACU						M		M	M			M	M

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<i>S. pauciflorus</i> (Now <i>PACKERA pauciflora</i>)	Alpine rayless ragwort	PAPA19	FAC	3	I	I	L	L								L
<i>S. scorzonella</i>	Sierra ragwort	SCSC	FAC	3	I			M								M
<i>S. serra</i>	Saw-toothed groundsel	SESE2	FACU	4	I		M	M								M M
<i>S. triangularis</i>	Arrow-leaved ragwort	SETR	FACW	4	I	I	M	M	M							M M
<i>S. werneriiifolius</i> (Now <i>PACKERA werneriiifolia</i>)	Hoary groundsel	PAWE4				I	L									
SERICOCARPUS (See ASTER) (p. 420)	WHITE-TOPPED ASTER															
<i>S. oregonensis</i> and ssp.	Oregon white-topped aster	SEOR6								M						M
SIBBALDIA (p. 1205)	SIBBALDIA															
<i>S. procumbens</i>	Creeping sibbaldia	SIPR	FACU	3	C		C	L	L	L						
SIDALCEA (p. 887)	CHECKERMALLOW															
<i>S. asprella</i> and ssp.	Sierra foothills check-erbloom	SIAS								M		M				M
<i>S. calycosa</i> and ssp.	Annual checkermallow	SICA	OBL	2	R	R	M		M		M	M	M			
<i>S. glaucescens</i>	Waxy checkermallow	SIGL2		2	I	I	M	M								M
<i>S. hartwegii</i>	Hartweg's checkermallow	SIHA								M	M	M	M			
<i>S. malviflora</i> and ssp.	Dwarf checkermallow	SIMA2	FACW	2	I		M		M	M	M	M	M			M M
<i>S. oregana</i> and ssp.	Oregon checkermallow	SIOR	FACW	2	I	I	M		M		M					M M
<i>S. ranunculacea</i>	Marsh checkermallow	SIRA	OBL	2	I	I	M	M								M
<i>S. reptans</i>	Sierra checkermallow	SIRE	OBL	2	I	I	M									M
SILENE (p. 616)	CATCHFLY, CAMPION															
<i>S. bernardina</i>	Palmer's catchfly	SIBE4						L	L					L	L	
<i>S. douglasii</i> var. <i>douglasii</i>	Douglas's catchfly	SIDOD							L	L	L	L	L			

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<i>S. invisa</i>	Short-petaled catchfly	SIIN														L
<i>S. laciniata</i> ssp. <i>californica</i> (Formerly <i>S. californica</i>)	California pink	SILAC								L	L		L	L		L
<i>S. menziesii</i>	Menzies's catchfly	SIME	FAC					L	L		L					L L
<i>S. occidentalis</i>	Western catchfly	SIOC						L					L	L	L	
<i>S. oregana</i>	Oregon catchfly	SIOR3														L L
<i>SILYBUM</i> (p. 420)	MILK THISTLE															
<i>S. marianum</i> *	Blessed milk thistle	SIMA3							L	L	L	L				
<i>SISYMBRIUM</i> (p. 564)	SISYMBRIUM															
<i>S. altissimum</i> *	Tall tumble mustard	SIAL2	FACU	2			R			L	L	L	L	L	L	
<i>S. officinale</i> *	Common hedge mustard	SIOF							L	L	L	L	L	L	L	
<i>SISYRINCHIUM</i> (p. 1360)	BLUE-EYED GRASS															
<i>S. bellum</i>	California blue-eyed grass	SIBE	FACW	3	I	I			M	M	M	M				
<i>S. californicum</i>	California golden-eyed grass	SICA8	FACW				M		M							
<i>S. douglasii</i> (Now <i>OLSYNIUM douglasii</i> var. <i>douglasii</i>) (p. 1360)	Purple-eyed grass	OLDOD			I				M		M		M	M		
<i>S. elmeri</i>	Elmer's golden-eyed grass	SIEL3	OBL	3	I	I		M		M						M
<i>S. halophilum</i>	Nevada blue-eyed grass	SIHA2	FACW	3	I	I		M								M
<i>S. idahoense</i> and var.	Idaho blue-eyed grass	SIID	FACW	3		I		M M								M M
<i>SMILACINA</i> (p. 1504)	Fam.; RUSCACEAE from LILIACEAE															
<i>S. racemosa</i> (Now <i>MAIANthemum racemosum</i>)	Feathery false solomon's plume	MARA7	FAC	2		I	I	L		L						L

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<i>S. stellata</i> (Now <i>MAIANthemum stellatum</i>)	Starry false solomon's seal	MAST4	FAC	2	I	I	L		L				L	L		
SOLANUM (PO) (p. 1255)	NIGHTSHADE															
<i>S. americanum</i> (PO)	American black night-shade	SOAM4	FACU	2				R	L		L	L	L	L		
<i>S. douglasii</i>	Douglas's nightshade	SODO	FAC							L	L			L		
<i>S. nigrum*</i> (PO)	Common black night-shade	SONI4	FACU							L	L	L	L	L		
<i>S. parishii</i>	Parish's nightshade	SOPA								L		L	L	L	L	
<i>S. umbelliferum</i>	Blue-witch nightshade	SOUM								L	L		L	L	L	
<i>S. xanti</i> (PO)	Purple chaparral night-shade	SOXA								L	L		L	L	L	
SOLIDAGO (PO) (p. 421)	GOLDENROD															
<i>S. velutina</i> ssp. <i>californica</i> (Formerly <i>S. californica</i>)	Calif. Goldenrod	SOVEC								L	L	L	L	L	L	
<i>S. elongata</i> (Formerly <i>S. canadensis</i> ssp. <i>elongata</i>)	Westcoast Canada goldenrod	SOEL	FACU	3	I	I	L			L				L	L	
<i>S. confinis</i>	Southern goldenrod	SOCO	FACW	3	I	I	L		L	L				L		
<i>S. multiradiata</i>	Northern goldenrod	SOMU	FACU	3	I	I	L	L							L	
<i>S. spectabilis</i>	Showy goldenrod	SOSP3	FACW	3	I	I	L								L	
SPERGULA (p. 622)	CORN SPURREY															
<i>S. arvensis*</i>	Corn spurrey, Stickwort	SPAR									L	L	L		L	
SPERGULARIA (p. 623)	SAND SPURREY															
<i>S. marina</i>	Salt-marsh sand-spurrey	SPMA2	OBL	2	R			L		L	L	L	L			
<i>S. rubra*</i>	Red sand-spurrey	SPRU	FAC	2		R	R	L		L		L		L	L	

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<i>SPHAERALCEA</i> (p. 896)	GLOBE MALLOW																
<i>S. ambigua</i> var. <i>ambigua</i>	Mountain apricot globe mallow	SPAMA3													L		
<i>S. grossulariifolia</i>	Currant-leaved globe mallow	SPGR3													M		
<i>SPHENOCIADIUM</i> (p. 199)	WHITE HEADS																
<i>S. capitellatum</i>	Ranger's buttons	SPCA5	FACW	3	I	I		L	L		L				L	L	
<i>SPIRANTHES</i> (p. 1405)	LADIES TRESSES																
<i>S. porrifolia</i>	Western ladies-tresses	SPPO7	FACW	3	C	C		L			L	L	L			L	
<i>S. romanoffiana</i>	Hooded ladies-tresses	SPRO	FACW	3	C	C		L	L		L		L		L	L	
<i>STACHYS</i> (p. 858)	HEDGE NETTLE																
<i>S. ajugoides</i>	Ajuga hedge nettle	STAJ	OBL	2		I		L		L	L		L			L	
<i>S. albens</i>	Cobwebby hedge nettle	STAL	OBL	2		I		L		L	L	L				L	
<i>S. bullata</i>	California hedge nettle	STBU						L		L	L			L		L	
<i>S. chamissonis</i>	Coast hedge nettle	STCH	FACW	2		I		L		L	L						
<i>S. pilosa</i> (Formerly <i>S. palustris</i> ssp. <i>pilosa</i>)	Hairy marsh hedge nettle	STPI6	FACW	2		I		L								L	
<i>STELLARIA</i> (p. 625)	STARWORT, CHICK-WEED																
<i>S. borealis</i> ssp. <i>sitchensis</i>	Boreal starwort	STBOS	FACW	2	I	I		M			M		M				
<i>S. calycantha</i>	Northern starwort	STCA	FACW	2	I			M			M					M	M
<i>S. crispa</i>	Crisped or ruffed starwort	STCR2	FAC	2	I			M	M	M	M					M	
<i>S. longipes</i> ssp. <i>longipes</i>	Long-stalked starwort	STLOL6	FACW	2	I	I		M	M		M					M	
<i>S. media</i> *	Common chickweed	STME2	FACU	2		R	R	M			M	M	M	M	M	M	
<i>S. umbellata</i>	Umbellate starwort	STUM	FACW	2		I		M	M		M					M	

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<i>SWERTIA</i> (Most spp. now <i>FRASERA</i>) (pp. 813, 817)	SWERTIA, FRASERA															
<i>S. perennis</i>	Star green gentian	SWPE	FACW	3	I	I		L	L							
<i>S. albicaulis</i> (Now <i>FRASERA albicaulis</i>)	White-stemmed frasera	FRAL2											L	L	L	
<i>S. radiata</i> (Now <i>FRASERA speciosa</i>)	Monument plant	FRSP			I	I		L		L				L	L	
<i>S. umpquaensis</i> (Now <i>FRASERA umpquaensis</i>)	Umpqua green gentian	FRUM						L								
<i>SYMPHYOTRICHUM</i> (See ASTER) (p. 428)	AMERICAN ASTER															
<i>S. ascendens</i>	Western American aster	SYAS3	FACU	3		I	I	M			M		M		M	M
<i>S. campestre</i>	Western meadow aster	SYCA3		3		I	I		M							M
<i>S. chilense</i>	Common Pacific aster	SYCH4	FAC	3		I		M		M	M	M	M			
<i>S. foliaceum</i> and var.	Alpine leafy aster	SYFO2	FACU	3		I	I	M	M		M					M
<i>S. spathulatum</i> and var.	Western mountain aster	SYSP	FAC	3		I	I	M		M						M M
<i>TARAXACUM</i> (p. 433)	DANDELION															
<i>T. californicum</i>	California dandelion	TACA5	FACW	2	R	R				H						H
<i>T. officinale*</i>	Common dandelion	TAOF	FACU	2	R	R		H	H	H	H	H	H	H	H	H
<i>THALICTRUM</i> (p. 1150)	MEADOW RUE															
<i>T. alpinum</i>	Arctic meadow rue	THAL	FACW	3		I		L	L							
<i>T. fendleri</i>	Fendler's meadow rue	THFE	FAC	3		I		L	L		L					L L
<i>T. sparsiflorum</i>	Few-flowered meadow rue	THSP	FAC	3		I		L	L		L					L
<i>THYSANOCARPUS</i> (p. 576)	FRINGE POD															
<i>T. curvipes</i>	Sand fringe pod	THCU								L	L	L	L	L	L	L
<i>T. laciniatus</i>	Narrow-leaved lacepod	THLA3								L	L	L	L	L	L	L
<i>T. radians</i>	Ribbed fringe pod	THRA								L	L	L				

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<i>TOFIELDIA</i> Fam: <i>TOFIELDIACEAE</i> from <i>LILIACEAE</i> (p. 1514)	FALSE ASPHODEL															
<i>T. occidentalis</i> ssp. <i>occidentalis</i> (Now <i>TRIANTHA occidentalis</i> ssp. <i>occidentalis</i>)	Western false asphodel	TROCO2	FACW	2	I			L	L		L					
<i>TOXICOSCORDION</i> (See <i>ZIGADENUS</i> Fam. <i>MELANTHIACEAE</i> from <i>LILIACEAE</i> (p. 1395)	DEATH CAMAS															
<i>T. exaltatum</i>	Giant death camas	TOEX											L			L
<i>T. fremontii</i>	Fremont's death camas	TOFR										L	L	L	L	L
<i>T. micranthum</i>	Small-flowered death camas	TOMI	OBL								L		L	L		
<i>T. paniculatum</i>	Panicled death camas	TOPA5													L	L
<i>T. venenosum</i> var. <i>venenosum</i>	Meadow death camas	TOVEV	FACU	2	I			I	L		L	L		L		L
<i>TORILIS</i> (p. 200)	SOCK DESTROYER, HEDGEparsley															
<i>T. arvensis</i> *	Field hedge parsley	TOAR										L	L	L	L	
<i>T. nodosa</i> *	Knotted hedge parsley	TONO										L	L	L	L	
<i>TRAGOPOGON</i> (p. 437)	SALSIFY	TRDU														
<i>T.dubius</i> *	Salsify					R	R	R								
<i>TRIANTHA</i> (See <i>TOFIELDIA</i>) (p. 1514)	FALSE ASPHODEL															
<i>T. occidentalis</i> ssp. <i>occidentalis</i>	Western false asphodel	TROCO2	FACW		C			L	L		L					
<i>TRICHOSTEMA</i> (p. 859)	BLUE CURLS															
<i>T. austromontanum</i>	Southern bluecurls	TRAU	OBL	2	R			L			L					L
<i>T. lanceolatum</i>	Vinegar bluecurls	TRLA4	FACU								L	L	L	L	L	
<i>T. laxum</i>	Turpentine bluecurls	TRLA5									L	L	L	L	L	
<i>T. oblongum</i>	Mountain bluecurls	TROB		2				R	L	L		L			L	L

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<i>T. rubisepalum</i>	Hernandez bluecurls	TRRU						L		L		L				
<i>T. simulatum</i>	Siskiyou bluecurls	TRSI												L	L	L
<i>TRIFOLIUM</i> (N-fixing) (p. 789)	CLOVER															
<i>T. albopurpureum</i>	Rancheria clover	TRAL5	FACU	2		R	R	H			H	H	H	H		
<i>T. andersonii</i>	Anderson's five-leaf clover	TRAN		2		I			H					H	H	
<i>T. beckwithii</i>	Beckwith's clover	TRBE2	FAC	2		I								H	H	
<i>T. bifidum</i>	Notch-leaf clover	TRBI			R					H	H	H		H		H
<i>T. bolanderi</i>	Bolander's clover	TRBO3	OBL	2		I		H								H
<i>T. breweri</i>	Brewer's clover	TRBR3									H					H
<i>T. campestre</i>	Field hop clover	TRCA5										H	H			
<i>T. ciliolatum</i>	Foothill clover	TRCI									H	H	H	H		
<i>T. cyathiferum</i>	Bowl clover	TRCY	FAC	2	R	R		H		H		H	H	H	H	H
<i>T. depauperatum</i> and var.	Cowbag clover	TRDE	FAC	2	R	R		H		H	H	H				
<i>T. dubium*</i>	Little hop shamrock	TRDU2	FACU	2			R			H	H	H				
<i>T. eriocephalum</i> ssp. <i>eriocephalum</i>	Woolly-head clover	TRERE	FAC	2		I		H		H		H				H
<i>T. fucatum</i>	Bull clover	TRFU	FACU					H			H	H	H			
<i>T. gracilentum</i>	Pinpoint clover	TRGR2									H	H	H	H		
<i>T. hirtum*</i>	Rose clover	TRHI4									H	H	H	H		
<i>T. hybridum*</i>	Alisike clover	TRHY	FAC	2		R				H		H	H			H
<i>T. kingii</i> ssp. <i>dedeckerae</i>	King's clover	TRKID	FAC						H							H
<i>T. lemmontii</i>	Lemmon's clover	TRLE2														H
<i>T. longipes</i> and ssp.	Long-stalked clover	TRLO	FAC	2	I	I		H	H	H						H

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<i>T. macrocephalum</i>	Big-head clover	TRMA3	FACU												H	H
<i>T. microcephalum</i>	Little-head clover	TRMI4	FAC					H				H	H	H		H
<i>T. microdon</i>	Thimble clover	TRMI5										H		H		H
<i>T. monanthum</i> and ssp.	Carpet clover	TRMO2	FAC	2	I	I		H	H			H				H
<i>T. oliganthum</i>	Few-flowered clover	TROL										H		H	H	H
<i>T. pratense*</i>	Common red clover	TRPR2	FACU									H	H	H		H
<i>T. productum</i>	Productive clover	TRPR4	FAC					H				H		H	H	H
<i>T. repens*</i>	White Dutch clover	TRRE3	FAC	2	R	R		H							H	H
<i>T. subterraneum*</i>	Subterranean clover	TRSU3		2		R		H		H		H		H		H
<i>T. variegatum</i> and var.	Variegated clover	TRVA	FAC	2	R	R		H		H		H	H	H		
<i>T. wildenovii</i>	Tomcat clover	TRWI3	FACU	2		R	R	H		H		H	H	H		H
<i>T. wormskiodii</i>	Cow clover	TRWO	FACW	2	I	I		H	H			H				H
TRIPHYSARIA Fam. OROBANCHACEAE from SCROPHULARIACEAE (p. 976)	OWL'S CLOVER, BUTTER AND EGGS															
<i>T. eriantha</i>	Butter and eggs	TRER6								L	L	L	L		L	
<i>T. micrantha</i>	Purple-beaked owl's clover	TRMI16								L	L	L				
<i>T. versicolor</i> ssp. <i>faucibarbata</i>	Yellow-beaked owl's clover	TRVEF								L	L	L	L			
TRITELEIA (See BRODIAEA and DICHELOSTEM-MA) Fam. THEMIDACEAE from LILIACEAE (p. 1512)		TRITE-LEIA														
<i>T. bridgesii</i>	Bridge's triteleia	TRBR7								M		M			M	
<i>T. crocea</i>	Yellow triteleia	TRCR7										M			M	
<i>T. dudleyi</i>	Dudley's triteleia	TRDU4						M	M							M

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<i>T. hyacinthina</i>	White triteleia	TRHY3	FAC	2	I	I		M		M	M	M			M	
<i>T. ixoides</i> and ssp.	Golden triteleia	TRIX	FAC						M		M	M	M			M
<i>T. laxa</i>	Ithuriel's spear	TRLA16								M	M	M	M	M		M
<i>T. montana</i>	Mountain triteleia	TRMO11						M								M
<i>TYPHA</i> (p. 1517)	CATTAIL															
<i>T. angustifolia</i> *	Narrow-leaved cattail	TYAN	OBL					L	L		L	L				
<i>T. domingensis</i>	Southern cattail	TYDO	OBL					L			L	L	L		L	L
<i>T. latifolia</i>	Broad-leaf cattail	TYLA	OBL	9	C			L			L	L	L		L	L
<i>URTICA</i> (p. 1263)	STINGING NETTLE															
<i>U. dioica</i> *	Common perennial stinging nettle	URDI	FAC	5	I	I		L		L	L			L	L	
<i>U. urens</i> *	Dwarf stinging nettle	URUR		2	R	R		L		L	L		L	L	L	
VERATRUM Fam. MELANTHIACEAE from LILIA-CEAE (p. 1397)	FALSE HELLEBORE, CORN LILY															
<i>V. californicum</i> var. <i>californicum</i>	Calif. False hellebore	VECAC2	FAC	7	I	I	I	L	L		L				L	
<i>V. insolitum</i>	Siskiyou false hellebore	VEIN								L						L
<i>V. viride</i>	Green false hellebore	VEVI	FAC	7	I	I		L	L							
VERBASCUM (p. 1248)	MULLEIN															
<i>V. blattaria</i> *	Moth mullein	VEBL	UPL					L			L	L	L	L	L	
<i>V. thapsus</i> *	Common woolly mullein	VETH	FACU	3				R	L		L	L	L	L	L	
<i>V. virgatum</i> *	Wand mullein	VEVI2						R	L		L	L	L	L		
VERBENA (p. 1266)	VERVAIN															
<i>V. bracteata</i>	Large-bracted verbena	VEBR	FAC					L		L	L	L	L		L	L
<i>V. hastata</i>	American blue verbena	VEHA2	FAC					L		L						L

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>V. lasiostachys</i> and var.	Western verbena	VELA	FAC	2				R	L		L	L	L	L	L	
<i>V. menthifolia</i>	Mint-leaved verbena	VEME								L	L					
<i>V. scabra</i>	Rough vervain	VESC	OBL	2				R	L		L	L	L			
VERONICA Fam. PLANTAGINACEAE from SCROPHULARIACEAE (p. 1032)	SPEEDWELL															
<i>V. americana</i>	American Brooklime	VEAM2	OBL	3	I	I		M	M	M	M	M	M	M	M	M
<i>V. anagallis-aquatica*</i>	Blue water speedwell	VEAN2	OBL	3	I	I		M	M	M	M	M	M	M	M	
<i>V. arvensis*</i>	Field or Corn speedwell	VEAR	FACU	2				R	M		M		M		M	
<i>V. copelandii</i>	Copeland's speedwell	VECO							M							M
<i>V. cusickii</i>	Cusick's speedwell	VECU	FAC	3		I		M	M							M
<i>V. peregrina</i> ssp. <i>xalapensis</i>	Purslane speedwell	VEPEX2	OBL	2	R	R		M	M	M	M	M	M	M	M	M
<i>V. scutellata</i>	Marsh speedwell	VESC2	OBL	3	I	I		M			M	M	M	M	M	M
<i>V. serpyllifolia</i> ssp <i>humifusa</i>	Thyme-leaved speedwell	VESEH2	FAC	3		I		M	M		M					M
<i>V. wormskoldii</i>	American alpine speedwell	VEWO2	FACW	3	I	I		M	M							M
<i>VICIA</i> (N-fixing) (p. 799)	VETCH															
<i>V. americana</i> ssp. <i>americana</i>	American vetch	VIAMA3	FAC	5		I	I	H		H	H	H	H	H	H	
<i>V. gigantea</i>	Giant coastal vetch	VIGI						H		H	H				H	
<i>V. hassei</i>	Hasse's slender vetch	VIHA3								H	H		H	H		
<i>V. sativa</i> and ssp.*	Spring vetch	VISA	UPL					H		H	H	H	H	H		
<i>V. villosa</i> and ssp.*	Winter vetch	VIVI						H		H	H	H	H	H	H	
<i>VIOLA</i> (p. 1269)	VIOLET															
<i>V. adunca</i> ssp. <i>adunca</i>	Western dog violet	VIADA	FAC	2	I	I		M	M		M		M		M	
<i>V. beckwithii</i>	Beckwith's violet	VIBE2									M					

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<i>V. cuneata</i>	Wedge-leaf violet	VICU2						M			M	M	M		M
<i>V. douglasii</i>	Douglas's golden violet	VIDO						M			M				M
<i>V. glabella</i>	Yellow stream violet	VIGL	FACW	2		I		M			M				M
<i>V. lobata</i> and ssp.	Yellow pine violet	VILO2									M		M		M
<i>V. macloskeyi</i>	Macloskey's white violet	VIMA2	OBL	2	I	I		M	M		M				M
<i>V. pedunculata</i>	Calif. Johnny-jump-up	VIPE3								M	M	M	M		
<i>V. purpurea</i> and ssp.	Mountain violet	VIPU4								M				M	M
<i>V. purpurea</i> ssp. <i>aurea</i> (Formerly <i>V. aurea</i>)	Golden violet	VIPUA												M	M
<i>V. sheltonii</i>	Shelton's violet	VISH								M	M	M	M		M
<i>V. tomentosa</i>	Felt-leaved violet	VITO													M
<i>WYETHIA</i> (p. 441)	MULE'S EARS														
<i>W. angustifolia</i>	Narrow-leaved mule's ears	WYAN	FACU							L	L	L		L	
<i>W. bolanderi</i>	Bolander's mule's ears	WYBO									L	L	L		
<i>W. elata</i>	Hall's mule's ears	WYEL								L	L	L			
<i>W. glabra</i>	Coast-range mule's ears	WYGL								L	L		L		L
<i>W. helenioides</i>	Gray mule's ears	WYHE	FACW							L	L	L			L
<i>W. invenusta</i>	Rayless mule's ears	WYIN										L			L
<i>W. longicaulis</i>	Humboldt mule's ears	WYLO								L	L				L
<i>W. mollis</i>	Woolly mule's ears	WYMO						L						L	L
<i>W. ovata</i>	Southern mule's ears	WYOV							L	L	L		L		L
<i>XANTHIUM</i> (PO) (p. 443)	COCKLEBUR														
<i>X. spinosum</i> * (PO)	Spiny cocklebur	XASP2	FACU	2				R	L	L	L	L		L	

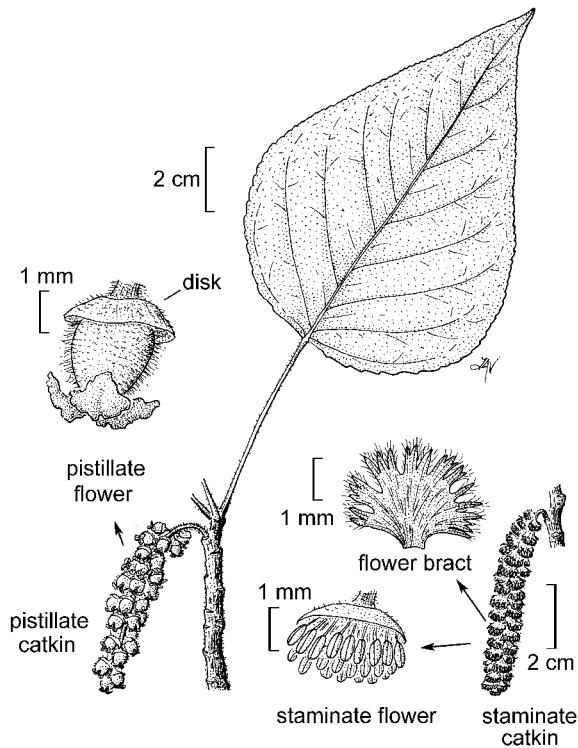
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<i>X. strumarium</i> (PO)	Common cocklebur	XAST	FAC	2				R	L		L	L			L	
ZELTNERA (See CENTAURIUM) (p. 817)	CENTAURY															
<i>Z. exaltata</i>	Great Basin centaury	ZEEX										L		L		L
<i>Z. muhlenbergii</i>	Muhlenberg's centaury	ZEMU										L	L	L		L
<i>Z. venusta</i>	Calif. Centaury	ZEVE									L	L	L	L	L	L
ZIGADENUS (Now TOXICOSCORDION) (PO) Fam. MELANTHIACEAE from LILIACEAE (p. 1395)	DEATH CAMAS															
<i>Z. exaltatus</i> (Now TOXICOSCORDIUM exaltatum)	Giant death camas	TOEX												L		L
<i>Z. fremontii</i> (Now TOXICOSCORDIUM fremontii)	Fremont's death camas	TOFR										L	L	L		L
<i>Z. micranthus</i> (Now TOXICOSCORDIUM micranthum)	Small-flowered death camas	TOMI	OBL									L		L	L	L
<i>Z. paniculatus</i> (Now TOXICOSCORDIUM paniculatum)	Panicled death camas	TOPA5														L L
<i>Z. venenosus</i> var. <i>venenosus</i> (Now TOXICOSCORDIUM venenosum var. venosum)	Meadow death camas	TOVEV	FACU	3		I	I	L		L	L		L		L L	

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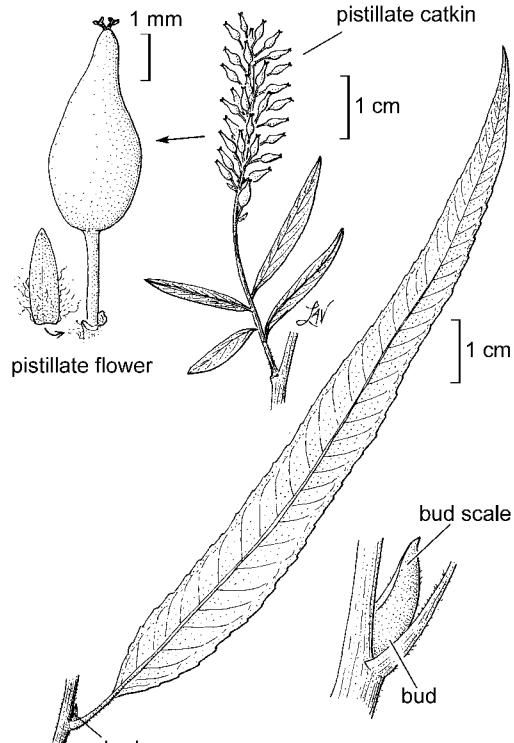


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Populus trichocarpa

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ACER (p. 1231)	MAPLE															
A. circinatum (S)	Western vine maple	ACCI	FAC	6				M/M			M/M					M/M
A. glabrum and var. (S)	Western mountain maple	ACGL	FACU	6					M/M						M/M	M/M
A. macrophyllum (S)	Big-leaf maple	ACMA3	FACU	8				L/L			L/L		L/L			L/L
A. negundo (S)	Box elder maple	ACNE2	FAC	8				L/L			L/L		L/L			L/L
ACMISPON (N-fixing) (See LOTUS) (p. 723)	DEERVETCH															
ACMISPON glaber (Formerly LOTUS scoparius)	Deerweed	ACGL							L/L	L/L	L/L	L/L	L/L		L/L	
ADENOSTOMA (p. 1169)	CHAMISE															
A. fasciculatum (S)	California chamise	ADFA							L/L	L/L		L/L	L/L			
A. sparsifolium (S)	Red shank	ADSP							L/L	L/L		L/L	L/L			
AESCULUS (p. 1231)	BUCKEYE, HOR-SECHESTNUT															
A. californica (PO) (S)	California buckeye	AECA								L/L		L/L	L/L			
ALNUS, N-fixing (p. 448)	ALDER															
A. incanus ssp. tenuifolia (S)	Mountain alder	ALINT	FACW	8				L/L	L/L		L/L					L/L
A. rhombifolia (VS)	Western white alder	ALRH2	FACW	9				L/L			L/L		L/L	L/L	L/L	L/L
A. rubra	Oregon red alder	ALRU2	FAC	9				L/L			L/L					
A. viridis ssp. sinuata (S)	Thin-leaf alder	ALVIS	FACW	8				L/L			L/L					L/L
AMBROSIA (p. 238)	BURSAGE															
A. dumosa	White bursage	AMDU2													L/L	
A. salsa and var.	Common burrobush	AMSA7									L/L			L/L		

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<i>AMELANCHIER</i> (p. 1170)	SERVICEBERRY																
<i>A. alnifolia</i> and var. (S)	Western serviceberry	AMAL2	FACU	6		C		L/M			L/M						L/M
<i>A. utahensis</i> (S)	Utah serviceberry	AMUT	UPL					L/M	L/M		L/M					L/M	L/M
<i>ANEMOPSIS</i> (p. 155)	YERBA MANSA																
<i>A. californica</i>	Yerba mansa	ANCA10	OBL					L/L								L/L	
<i>ARBUTUS</i> (p. 686)	MADRONE																
<i>A. menziesii</i> (S)	Pacific madrone	ARME						L/L			L/L		L/L			L/L	
<i>ARCTOSTAPHYLOS</i> (p. 686)	MANZANITA																
<i>A. canescens</i> and ssp.	Hoary manzanita	ARCA5								L/L	L/L			L/L	L/L	L/L	
<i>A. glandulosa</i> and ssp. (S)	Glandular Eastwood manzanita	ARGL3								L/L	L/L			L/L			
<i>A. glauca</i>	Bigberry manzanita	ARGL4								L/L	L/L		L/L	L/L			
<i>A. manzanita</i> and ssp. (VS)	Common manzanita	ARMA								L/L	L/L		L/L	L/L			
<i>A. mewukka</i> and ssp. (S)	Mewuk manzanita	ARME3												L/L	L/L		L/L
<i>A. nevadensis</i> and ssp.	Pinemat manzanita	ARNE							L/L		L/L				L/L		L/L
<i>A. nissenana</i>	Nissenan manzanita	ARNI												L/L	L/L		L/L
<i>A. patula</i> (S)	Green-leaved manzanita	ARPA6						L/L		L/L				L/L		L/L	
<i>A. uva-ursi</i> (S)	Kinnikinnick, Bearberry	ARUV						L/L		L/L				L/L		L/L	
<i>A. viscida</i> and ssp.	Sticky white-leaf manzanita	ARVI4								L/L		L/L	L/L			L/L	
<i>ARTEMISIA</i> (p. 250)	SAGEBRUSH																
<i>A. arbuscula</i> and ssp.	Low sagebrush	ARAR8							L/L		L/L					L/L	L/L
<i>A. californica</i>	California sagebrush	ARCA11								L/L	L/L						

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<i>A. cana</i> ssp. <i>bolanderi</i>	Bolander's silver sagebrush	ARCBAB3	FACU	4	C	C	C	L/L	L/L						L/L	L/L	
<i>A. nova</i>	Black sagebrush	ARNO4							L/L		L/L				L/L	L/L	
<i>A. rothrockii</i>	Rothrock's sagebrush	ARRO4		4	C	C	C	L/L	L/L		L/L					L/L	
<i>A. tridentata</i> and ssp.	Big sagebrush	ARTR		4				L/L	L/L		L/L					L/L	
<i>ASCLEPIAS</i> (p. 203)	MILKWEED																
<i>A. albicans</i>	White-stemmed milkweed	ASAL													L/L		
<i>ATRIPLEX</i> (p. 630)	SALTBUSH, SHAD-SCALE																
<i>A. argentea</i> and var.	Silverscale saltbush	ATAR2	FAC								L/L					L/L	
<i>A. canescens</i> and var.	Four-winged saltbush	ATCA2						L/M		L/M	L/M					L/M	
<i>A. confertifolia</i>	Spiny shadscale	ATCO									L/M					L/M	
<i>A. gardneri</i> var. <i>falcata</i>	Gardner's saltbush	ATGAF						L/L								L/L	
<i>A. lentiformis</i>	Lens scale, Quail brush	ATLE	FAC					L/L		L/L	L/L	L/L				L/L	
<i>BACCHARIS</i> (p. 253)	BACCHARIS																
<i>B. brachyphylla</i> (S)	Short-leaf baccharis	BABR						L/L			L/L					L/L	
<i>B. pilularis</i> (VS)	Coyote brush	BAPI								M/L	M/L	M/L	M/L	M/L			
<i>B. salicifolia</i> ssp. <i>salicifolia</i>	Seep-willow, Mule fat	BASAS	FACW					M/L		M/L	M/L	M/L	M/L	M/L		M/L	
<i>B. sarothroides</i> (S)	Broom baccharis	BASA2	FACU					L/L		L/L						L/L	
<i>BERBERIS</i> (p. 446)	OREGON GRAPE, BARBERRY																
<i>B. aquifolium</i>	Holly-leaf barberry	BEAQ								L/L		L/L	L/L	L/L			
<i>B. aquifolium</i> var. <i>dictyota</i>	Jepson's barberry	BEAQD								L/L		L/L	L/L				
<i>B. aquifolium</i> var. <i>repens</i>	Creeping Oregon grape	BEAQR								L/L		L/L	L/L	L/L			

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<i>B. nervosa</i>	Cascades barberry	BENE2	FACU								L/L						L/L
<i>B. pinnata</i> and ssp.	Shiny-leaf barberry	BEPI								L/L		L/L	L/L			L/L	
<i>BRICKELLIA</i> (p. 262)	BRICKELLBUSH																
<i>B. californica</i>	California brickellbush	BRCA3	FACU							L/L	L/L	L/L	L/L			L/L	
<i>B. grandiflora</i>	Large-flowered brick-ellbush	BRGR							L/L		L/L	L/L				L/L	
<i>B. greenei</i>	Green's brickellbush	BRGR2	FACU						L/L	L/L						L/L	
<i>B. nevinii</i>	Nevin's brickellbush	BRNE2							L/L				L/L	L/L			
<i>CASSIOPE</i> (p. 700)	MOSS HEATHER																
<i>C. mertensiana</i>	White mtn. heather	CAME7	FACU	5	C	C		L/L	L/L		L/L					L/L	
<i>CEANOTHUS</i> (p. 1153)	CALIFORNIA-LILAC																
<i>C. arboreus</i>	Feltleaf ceanothus	CEAR								L/L		L/L	L/L				
<i>C. cordulatus</i> (S)	Mountain whitethorn	CECO							L/L		L/L				L/L	L/L	
<i>C. crassifolius</i> and var. (S)	Hoary-leaf ceanothus	CECR							L/L	L/L			L/L				
<i>C. cuneatus</i> and var.	Wedge-leaf ceanothus	CECU								L/M		L/M	L/M	L/M			
<i>C. diversifolius</i>	Pinemat ceanothus	CEDI2							L/L		L/L					L/L	
<i>C. fresnensis</i>	Fresno mat	CEFR														L/L	
<i>C. integrerrimus</i> and var. (S)	Deerbrush ceanothus	CEIN3							L/M		L/M	L/M	L/M	L/M			
<i>C. lemmontii</i> (S)	Lemmon's ceanothus	CELE							L/L		L/L					L/L	
<i>C. leucodermis</i> (S)	Chaparral whitethorn	CELE2							L/L	L/L		L/L	L/L				
<i>C. oliganthus</i> var. <i>sorediatus</i> (VS)	Jim brush	CEOLS2							L/L				L/L			L/L	
<i>C. parvifolius</i> (S)	Small-leaved ceanothus	CEPA4														L/L	
<i>C. pinetorum</i> (S)	Kern Plateau ceanothus	CEPI														L/L	
<i>C. prostratus</i> and var.	Mahala mat ceanothus	CEPR							L/L		L/L				L/L	L/L	

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<i>C. pumilis</i>	Siskiyou mat	CEPU								L/L			L/L		L/L	
<i>C. spinosus</i> (S)	Greenbark ceanothus	CESP							L/L	L/L			L/L			
<i>C. thyrsiflora</i> and var.	Blueblossom ceanothus	CETH							L/L	L/L						
<i>C. tormentosa</i> (S)	Wooleyleaf ceanothus	CETO							L/L		L/L		L/L	L/L	L/L	L/L
<i>C. velutinus</i> (S)	Tobacco brush	CEVE						L/L		L/L			L/L	L/L	L/L	L/L
<i>CERCIS</i> (p. 753)	REDBUD															
<i>C. occidentalis</i> (S)	Western redbud	CEOOC3						L/L		L/L		L/L	L/L	L/L	L/L	
<i>CERCOCARPUS</i> (p. 1171)	MOUNTAIN-MAHOGANY															
<i>C. betuloides</i> and var. (S)	Birch-leaf mahogany	CEBE3								L/M	L/M	L/M	L/M	L/M	L/M	
<i>C. ledifolius</i> var. <i>intricatus</i> (Formerly <i>C. intricatus</i>) (S)	Little-leaf mountain mahogany	CELEI3						L/L					L/L	L/L		
<i>C. ledifolius</i> and var.	Curl-leaf mountain mahogany	CELE3							M/M		M/M		M/M	M/M	M/M	
<i>C. minutiflorus</i>	Smooth mountain mahogany	CEMI3								L/L			L/L			
<i>CHAMAEBATIA</i> (p. 1172)	MTN. MISERY, BEAR CLOVER															
<i>C. australis</i> (S)	Southern bear clover	CHAU2							L/L							
<i>C. foliolosus</i> (S)	Mountain misery	CHFO								L/L			L/L		L/L	
<i>CHAMAEBATIARIA</i> (p. 1172)	FERN BUSH															
<i>C. millefolium</i>	Desert sweet	CHMI2						L/L						L/L		
<i>CHRYSOTHAMNUS</i> (<i>Many spp. now ERICAMERIA</i>) (S) (p. 280)	RABBITBRUSH															
<i>CHRYSOTHAMNUS</i> sp.				4				I	L/L	L/L		L/L	L/L	L/L	L/L	

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CHRYSOLEPIS (p. 802)	CHINQUAPIN															
C. chrysophylla and var. (S)	Giant golden chinquapin	CHCH7								L/L				L/L		L/L
C. sempervirens	Sierran bush chinquapin	CHSE11							L/L		L/L			L/L	L/L	L/L
COLEOGYNE (p. 1172)	BLACKBUSH															
C. ramosissima	Black brush coleogyne	CORA												L/M		
CORNUS (p. 664)	DOGWOOD															
C. canadensis (PO)	Canadian bunchberry	COCA13	FAC					L/L		L/L						L/L
C. glabrata	Brown dogwood	CRGL3	FACW					L/L		L/L		L/L				L/L
C. nuttallii (S)	Mountain dogwood	CONU4	FACU					L/L		L/L						L/L
C. sericea and ssp.	American dogwood	COSE16	FACW	8				L/L		L/L						L/L
C. sessilis	Miner's dogwood	COSE3	FAC					L/L		L/L		L/L				L/L
CORYLUS (p. 449)	HAZELNUT															
C. cornuta ssp. californica (S)	California hazelnut	COLOC	FACU					L/L		L/L						L/L
CRATAEGUS (p. 1174)	HAWTHORNE															
C. castlegarensis	Castlegar hawthorne	CRCA		8				L/L								L/L
C. douglasii	Douglas's black haw-thorne	CRDO2	FAC	8		C		L/M							L/M	L/M
C. suksdorfii	Suksdorf's hawthorne	CRSU16														
Now C. gaylussacia	Black-fruited hawthorne	CRGA	FAC	8		C		L/L		L/L						L/L
CYTISUS (p. 753)	BROOM															
C. scoparius* (S)	Scotch broom	CYSC4								L/L		L/L				L/L
DENDROMECON (p. 981)	BUSH POPPY															
D. rigida (S)	California bush poppy	DERI							L/L	L/L		L/L	L/L			

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DASIPHORA (See POTENTILLA) (p. 1175)	SHRUBBY CINQUEFOIL															
<i>D. fruticosa</i>	Shrubby cinquefoil	DAFR3	FAC		C	C	C	L/L	L/L							L/L
ENCELIA (p. 304)	BRITTLEBRUSH															
<i>E. actonii</i>	Acton's brittlebush	ENAC									L/L		L/L		L/L	
<i>E. californica</i>	California brittlebush	ENCA								L/L	L/L			L/L		
<i>E. farinosa</i>	Common brittlebush	ENFA								L/L	L/L				L/L	
EPHEDRA (p. 140)	EPHEDRA, MORMON TEA															
<i>E. californica</i>	Desert tea	EPCA2									L/M	L/M	L/M	L/M	L/M	
<i>E. nevadensis</i>	Nevada Mormon tea	EPNE									L/M				L/M	
<i>E. viridis</i>	Green ephedra	EPVI									L/M				L/M	
EPILOBIUM (See ZAUSCHNERIA) (p. 941)	WILLOWHERB															
<i>E. canum</i> ssp. <i>canum</i>	California fuchsia	EPCA3						L/L	L/L	L/L	L/L		L/L			
ERICAMERIA (See CHRYSOTHAMNUS) (p. 306)	GOLDENBUSH, RAB-BITBRUSH															
<i>E. bloomeri</i>	Bloomer's goldenbush	ERBL2													L/L	L/L
<i>E. greenei</i>	Greene's goldenbush	ERGR16							L/L		L/L				L/L	L/L
<i>E. nauseosus</i> and var. (S)	Rubber rabbitbrush	ERNA10							L/L	L/L	L/L		L/L		L/L	
<i>E. parryi</i> and var.	Parry's goldenbush	ERPA30							L/L		L/L				L/L	L/L
ERIODICTYON Fam: BORAGINACEAE from HYDROPHYLACEAE (p. 470)	YERBA SANTA															
<i>E. californicum</i> (S)	California yerba santa	ERCA6								L/L	L/L		L/L	L/L	L/L	L/L
<i>E. crassifolium</i> and var.	Thick-leaf yerba santa	ERCR6								L/L	L/L		L/L	L/L	L/L	
<i>E. tomentosum</i>	Woolly yerba santa	ERTO								L/L	L/L	L/L	L/L			

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<i>E. traskiae</i> and ssp.	Trask's yerba santa	ERTR6							L/L	L/L						
<i>E. trichocalyx</i> and var.	Hairy yerba santa	ERTR7											L/L	L/L	L/L	L/L
<i>ERIOGONUM</i> (p. 1083)	BUCKWHEAT															
<i>E. fasciculatum</i> and ssp. (VS)	California wild buckwheat	ERFA2						L/L		L/L	L/L				L/L	
<i>E. heermannii</i> and ssp.	Heermann's wild buckwheat	ERHE						L/L	L/L		L/L				L/L	
<i>E. microthecum</i> and ssp.	Great Basin buckwheat	ERMI4							L/L		L/L				L/L	
<i>E. umbellatum</i> and ssp.	Sulfur-flowered buckwheat	ERUM							L/L		L/L				L/L	L/L
<i>E. wrightii</i> and ssp.	Wright's wild buckwheat	ERWR							L/L		L/L		L/L		L/L	
<i>ERIOPHYLLUM</i> (p. 324)	WOOLLY SUNFLOWER															
<i>E. confertifolium</i>	Golden yarrow	ERCO5							L/L	L/L		L/L	L/L	L/L		
<i>E. lanatum</i> and var.	Common woolly sunflower	ERLA6							L/L	L/L	L/L		L/L	L/L	L/L	L/L
<i>FALLUGIA</i> (p. 1178)	APACHE PLUME															
<i>F. paradoxa</i>	Apache plume	FAPA														L/L
<i>FRANGULA</i> (See <i>RHAMNUS</i>) (p. 1163)	COFFEE BERRY															
<i>F. californica</i> and ssp.	California buckthorn	FRCA12								L/L	L/L		L/L	L/L	L/L	
<i>F. purshiana</i> and ssp.	Cascara sagrada	FRPU7	FAC						L/L		L/L		L/L	L/L		L/L
<i>F. rubra</i>	Sierra coffeeberry	FRRU												L/L	L/L	L/L
<i>FRAXINUS</i> (p. 923)	ASH															
<i>F. dipetala</i> (S)	California flowering ash	FRDI2							L/L		L/L		L/L	L/L		
<i>F. latifolia</i> (S)	Oregon ash	FRLA	FACW	8					L/L		L/L		L/L	L/L	L/L	L/L

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<i>F. velutina</i>	Velvet ash	FRVE2	FAC					L/L					L/L	L/L	L/L	
<i>FREMONTODENDRON</i> (p. 880)	FREMONTIA, FLAN-NELBUSH															
<i>F. californicum</i> (S)	California flannelbush	FRCA6								L/L			L/L	L/L		
<i>F. mexicanum</i> (S)	Mexican flannelbush	FRME2							L/L				L/L			
<i>GARRYA</i> (p. 810)	SILKTASSEL BUSH															
<i>G. buxifolia</i> (S)	Box-leaved silktassel	GABU2							L/L	L/L						L/L
<i>G. congdonii</i> (S)	Congdon's silktassel	GACO9							L/L			L/L	L/L			
<i>G. elliptica</i> (S)	Coast silktassel	GAEL							L/L	L/L		L/L	L/L			
<i>G. flavescens</i>	Ashy silktassel	GAFL2							L/L			L/L	L/L	L/L	L/L	
<i>G. fremontii</i> (S)	Fremont's silktassel	GAFR							L/L	L/L		L/L	L/L	L/L	L/L	
<i>G. veatchii</i> (S)	Veatch's silktassel	GAVE2							L/L	L/L		L/L	L/L			
<i>GAULTHERIA</i> (p. 702)	SALAL, WINTERGREEN															
<i>G. humifusa</i>	Alpine wintergreen	GAHU	FACW	6				L/L	L/L							L/L
<i>G. ovatifolia</i>	Oregon spicy winter-green	GAOV2	FAC					L/L	L/L							L/L
<i>G. shallon</i> (VS)	Common salal	GASH	FACU					L/L		L/L	L/L					
<i>GENISTA</i> (PO) (p. 754)	FRENCH BROOM															
<i>G. monspessulana*</i>	French broom	GEMO2							L/L	L/L						
<i>GRAYIA</i> (p. 644)	HOPSAGE															
<i>G. spinosa</i>	Spiny hopsage	GRSP									M/M				M/M	
<i>GUTIERREZIA</i> (p. 337)	SNAKEWEED, MATCH-WEED															
<i>G. californica</i>	California matchweed	GUCA								L/L	L/L					

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<i>G. microcephala</i>	Sticky snakeweed	GUMI										L/L	L/L		L/L	
<i>G. sarothrae</i>	Snake-broom	GUSA2							L/L						L/L	
HAZARDIA (p. 340)	GOLDENBUSH															
<i>H. squarrosa</i> and var.	Saw-toothed goldenbush	HASQ2								L/L		L/L	L/L	L/L		
<i>H. whitneyi</i> and var.	Whitney's goldenbush	HAWH3							L/L						L/L	
HESPEROCYPARIS (p. 136)	WESTERN CYPRESS															
<i>H. abramsiana</i>	Santa Cruz cypress	HEAB2								L/L					L/L	
HETEROMELES (PO) (p. 1179)	CHRISTMAS BERRY, TOYON															
<i>H. arbutifolia</i> (S)	Toyon	HEAR5								L/L	L/L		L/L	L/L		
HOLODISCUS (p. 1179)	CREAMBUSH, OCEAN SPRAY															
<i>H. discolor</i> and var. (S)	Cream-bush, ocean spray	HODI	FACU						L/M	L/M	L/M			L/M	L/M	
HYMENOCLEA (Now AMBROSIA) (p. 238)	BUR SAGE, BURRO-BUSH															
<i>H. salsola</i>	White burrobush	HYSA														
Now AMBROSIA <i>salsola</i>	White burrobush	AMSA7								L/L					L/L	
JUNIPERUS (p. 138)	JUNIPER															
<i>J. californica</i>	California juniper	JUCA7								L/L		L/L		L/L		
<i>J. communis</i> and var.	Common juniper	JUCO6	UPL		6				L/L		L/L				L/L	L/L
<i>J. occidentalis</i>	Western juniper	JUOC		6					L/L		L/L			L/L	L/L	
<i>J. osteosperma</i>	Utah juniper	JUOS		6					L/L					L/L	L/L	

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KALMIA (p. 702)	BOG LAUREL, SWAMP LAUREL																
<i>K. polifolia</i>	Swamp laurel	KAPO	OBL	5	C	C		L/L	L/L		L/L					L/L	
KOCHIA (p. 644)	KOCHIA																
<i>K. americana</i>	Green-molly kochia	KOAM						M/M							M/M		
KRASCHENIINNIKOVIA (p. 645)	WINTER FAT																
<i>K. lanata</i>	Common winter fat	KRLA2						M/M			M/M				M/M		
KECKIELLA (p. 1012)	BUSH PENSTEMON, BEARDTONGUE																
<i>K. antirrhinoides</i> and var.	Chaparral beardtongue	KEAN									L/L		L/L	L/L	L/L		
<i>K. breviflora</i> and var.	Gaping bush beard-tongue	KEBR								L/L	L/L		L/L	L/L	L/L	L/L	
<i>K. cordifolia</i>	Heart-leaved bush beardtongue	KECO								L/L	L/L			L/L			
<i>K. corymbosa</i>	Red bush beardtongue	KECO2								L/L		L/L					
<i>K. lemmonii</i>	Lemmon's bush beard-tongue	KELE								L/L						L/L	
<i>K. rothrockii</i> and var.	Rothrock's bush beard-tongue	KERO							L/L					L/L	L/L	L/L	L/L
<i>K. ternata</i> and var.	Blue-stem beardtongue	KETE								L/L	L/L		L/L			L/L	
LEDUM (PO) (Now RHODODENDRON) (p. 706)	LABRADOR TEA																
<i>L. glandulosum</i> (Now RHODODENDRON columbianum)	Western Labrador tea	RHCO	OBL	5	C	C		L/L	L/L		L/L				L/L	L/L	
LEPECHINIA (p. 838)	PITCHER SAGE																
<i>L. calycina</i>	Woodbalm pitcher-sage	LECA3											L/L	L/L	L/L		

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<i>L. fragrans</i>	Fragrant pitcher-sage	LEFR										L/L		L/L			
LEUCOTHOE (p. 703)	LEUCOTHOE																
<i>L. davisiae</i> (PO)	Sierra laurel	LEDA	FACW	8	C	C		L/L	L/L							L/L	
LITHOCARPUS (Now NOTHOLITHOCARPUS) (p. 802)	TANOAK																
<i>L. densiflorus</i> (Now NOTHOLITHOCARPUS <i>densiflorus</i>) (S)	Tanoak, tanbark oak	NODE										L/L				L/L	
<i>L. densiflorus</i> var. <i>echinoides</i> (Now NOTHOLITHOCARPUS <i>densiflorus</i> var. <i>echinoides</i>) (S)	Dwarf tanbark oak	NODEE										L/L				L/L	
LONICERA (p. 600)	HONEYSUCKLE																
<i>L. cauriana</i>	Bluefly honeysuckle	LOCA9		5	C	C		L/M	L/M							L/M	
<i>L. ciliosa</i>	Orange honeysuckle	LOCI3										L/L				L/L	
<i>L. conjugialis</i>	Double-fld. Honeysuckle	LOC05	FAC					L/M	L/M			L/M				L/M L/M	
<i>L. hispida</i>	California hairy honeysuckle	LOHI2	FACU					L/L				L/L					
<i>L. interupta</i>	Chaparral honeysuckle	LOIN4										L/M		L/M L/M		L/M	
<i>L. involucrata</i> and var.	Black twinberry	LOIN5	FAC	5	C	C		L/M	L/M	L/M	L/M				L/M	L/M	
<i>L. subspicata</i> and var.	Southern honeysuckle	LOSU2										L/L		L/L	L/L		
MALACOTHAMNUS (p. 884)	BUSH-MALLOW																
<i>M. fasciculatus</i> and var.	Chaparral bush-mallow	MAFA										L/L	L/L			L/L	
<i>M. fremontii</i>	Fremont's bush-mallow	MAFR2										L/M		L/M L/M	L/M	L/M	
<i>M. hallii</i>	Hall's bush-mallow	MAHA2										L/L				L/L	
MALOSMA (p. 170)	LAUREL SUMAC	MALA6										L/L	L/L				
<i>M. laurina</i>	Laurel sumac																

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
<i>MENODORA</i> (p. 924)	MENODORA															
<i>M. spinescens</i>	Spiny menodora	MESP2													L/L	
<i>MIMULUS</i> Fam: PHRYMACEAE from SCROPHULARIACEAE (p. 998)	MONKEYFLOWER															
<i>M. aurantiacus</i> (S)	Sticky bush monkey-flower	MIAU						L/L		L/L	L/L		L/L	L/L		
<i>M. clevelandii</i> (S)	Cleveland's bush monkeyflower	MICL2							L/L				L/L		L/L	
<i>MORELLA</i> (See <i>MYRICA</i>) (p. 911)	WAX MYRTLE															
<i>M. californica</i> (S)	California wax myrtle	MOCA6	FACW						L/L	L/L						
<i>MYRICA</i> (p. 911)	SWEET BAY, WAX MYRTLE															
<i>M. californica</i> (Now <i>MORELLA californica</i>) (S)	California wax myrtle	MOCA6	FACW						L/L	L/L						
<i>M. hartwegii</i>	Sierra sweet bay	MYHA	FAC						L/L				L/L		L/L	
<i>NICOTIANA</i> (PO) (p. 1253)	TOBACCO															
<i>N. glauca*</i> (PO)	Common tree tobacco	NIGL							L/L	L/L			L/L		L/L	
<i>NOTHOLITHOCARPUS</i> (See <i>LITHOCARPUS</i>) (p. 802)	TANOAK															
<i>N. densiflorus</i>	Tanoak, tanbark oak	NODE								L/L					L/L	
<i>N. densiflorus</i> var. <i>echinoides</i>	Dwarf tanbark oak	NODEE								L/L					L/L	
<i>OEMPLERIA</i> (p. 1190)	OSO BERRY															
<i>O. cerasiformis</i>	Oso berry, Oso plum	OECE	FACU						L/L	L/L			L/L		L/L	
<i>PENSTEMON</i> (p. 1017)	BEARDTONGUE															
<i>P. deustus</i> and var.	Hot-rock penstemon	PEDE4							L/L						L/L	L/L

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF	
<i>P. newberryi</i> and var.	Mountain pride pen-stemon	PENE3							L/L		L/L					L/L	
<i>P. roezlii</i>	Roezl's beardtongue	PERO12							L/L				L/L		L/L	L/L	
<i>P. rostriflorus</i>	Beakflowered beard-tongue	PERO10							L/L		L/L		L/L		L/L	L/L	
<i>PERAPHYLLUM</i> (p. 1190)	WILD CRAB APPLE																
<i>P. ramosissimum</i>	Wild crab apple	PERA4													L/M		
<i>PHILADELPHUS</i> Fam: HYDRANGACEAE from <i>PHILADELPHACEAE</i> (p. 829)	MOCK-ORANGE																
<i>P. lewisii</i>	Lewis's mock-orange	PHLE4										L/L		L/L	L/L	L/L	
<i>P. microphyllus</i>	Little-leaf mock-orange	PHMI4										L/L				L/L	
<i>PHLOX</i> (p. 1068)	PHLOX																
<i>P. diffusa</i>	Spreading phlox	PHDI							L/L		L/L					L/L	
<i>P. dispersa</i>	High Sierra phlox	PHDI4							L/L								
<i>P. hoodii</i> ssp. <i>canescens</i>	Carpet phlox	PHHOC							L/L							L/L	
<i>P. speciosa</i>	Western showy phlox	PHSP								L/L	L/L		L/L			L/L	
<i>PHYLLODOCE</i> (p. 704)	MOUNTAIN HEATHER																
<i>P. breweri</i>	Brewer's or Purple mtn. heather	PHBR4	FAC	5	C	C			L/L		L/L					L/L	
<i>P. empetriformis</i>	Pink mountain heather	PHEM	FACU	5	C	C			L/L							L/L	
<i>PHYSOCARPUS</i> (p. 1190)	NINEBARK																
<i>P. alternans</i>	Nevada or Dwarf ninebark	PHAL7								L/M						L/M	
<i>P. capitatus</i>	Pacific ninebark	PHCA11	FACW					L/M		L/M						L/M	

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
PICKERINGIA (p. 783)	CHAPARRAL PEA															
P. montana and var. (S)	Chaparral pea	PIMO5							L/L	L/L		L/L	L/L			
PLATANUS (p. 1034)	SYCAMORE															
P. racemosa (S)	California sycamore	PLRA	FACW					L/L		L/L	L/L	L/L	L/L			
POPULUS (p. 1218)	ASPEN, COTTON-WOOD															
P. alba*	White poplar	POAL7												L/L	L/L	
P. fremontii ssp. fremontii (S)	Fremont's cottonwood	POFRF3	FACW					L/L		L/L		L/L				
P. tremuloides (S)	American quaking aspen	POTR5	FACU	8	C	C	C	L/L	L/L		L/L			L/L	L/L	
P. trichocarpa (Formerly P. balsamifera ssp. trichocarpa) (S)	Western black cottonwood	POTR15	FAC	8	C	C		L/L	L/L		L/L			L/L	L/L	
POTENTILLA (See DASIPHORA) (p. 1175)	CINQUEFOIL															
P. fruticosa (Now DASIPHORA fruticosa)	Shrubby cinquefoil	DAFR3	FAC	5	C	C	C	L/L	L/L					L/L	L/L	
PRIMULA (p. 1130)	PRIMROSE															
P. suffrutescens	Sierra primrose	PRSU	FAC						L/L					L/L	L/L	
PRUNUS (p. 1196)	WILD CHERRY, PLUM, ALMOND															
P. andersonii	Anderson's desert peach	PRAN2												L/M	L/M	
P. emarginata (S)	Common bitter cherry	PREM	FACU	6				L/M	L/M		L/M		L/M	L/M	L/M	
P. fasciculata and var.	Desert almond	PRFA									L/M				L/M	
P. ilicifolia ssp. ilicifolia (S)	Holly-leaved cherry	PRII									L/M		L/M	L/M		
P. subcordata (S)	Sierra plum, Pacific plum	PRSU2									L/M		L/M		L/M	L/M
P. virginiana var. demissa (S)	Western chokecherry	PRVID	FACU	6		I	L/L			L/M		L/M	L/M	L/M	L/M	

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				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF	
<i>PURSHIA</i> (p. 1198)	BITTERBRUSH																
<i>P. stansburyana</i> (Formerly <i>P. mexicana</i> var. <i>stansburyana</i>)	Stansbury's cliffrose	PUST													M/M		
<i>P. tridentata</i> and var. (VS)	Antelope bitterbrush	PUTR2							M/M		M/M				M/M	M/M	
<i>QUERCUS</i> (p. 803)	OAK							L/L		L/L							
<i>Q. agrifolia</i> and var. (S)	Coast live oak, Encino	QUAG															
<i>Q. berberidifolia</i> (S)	Chaparral scrub oak	QUBE5							L/L	L/L	L/L	L/L	L/L				
<i>Q. chrysolepis</i> (S)	Canyon live oak	QUCH2						L/L		L/L	L/L	L/L	L/L	L/L			
<i>Q. douglasii</i> (S)	Calif. Blue oak	QUDO								L/M	L/M	L/M					
<i>Q. dumosa</i> (S)	Nuttall's scrub oak	QUDU							L/L	L/L	L/L	L/L	L/L				
<i>Q. durata</i> and var. (S)	Leather oak	QUDU4								L/L		L/L					
<i>Q. garryana</i> (S)	Oregon oak	QUGA4	FACU							L/L	L/L	L/L			L/L		
<i>Q. garryana</i> var. <i>breweri</i> (S)	Brewer's oak	QUGAB								L/L	L/L	L/L			L/L		
<i>Q. kelloggii</i> (S)	Calif. Black oak	QUKE								L/L	L/L	L/L			L/L		
<i>Q. lobata</i> (S)	Valley oak, Roble	QULO	FACU					L/L		L/L	L/L	L/L					
<i>Q. palmeri</i>	Palmer's scrub oak	QUPA10								L/L					L/L		
<i>Q. sadleriana</i> (S)	Sadler's oak, Deer oak	QUSA2								L/L						L/L	
<i>Q. vaccinifolia</i> (S)	Huckleberry oak	QUVA						L/L		L/L					L/L	L/L	
<i>Q. wislizeni</i> (S)	Interior live oak	QUWI2								L/L	L/L	L/L				L/L	
<i>Q. wislizeni</i> var. <i>frutescens</i> (S)	Scrub interior live oak	QUWIF								L/L	L/L				L/L		
<i>RHAMNUS</i> (Some now <i>FRANGULA</i>) (pp. 1163, 1164)	BUCKTHORN																
<i>R. alnifolia</i> (S)	Alder-leaf buckthorn	RHAL	FACW	8	C		C	L/L								L/L	
<i>R. californica</i> (Now <i>FRANGULA californica</i>) (S)	California coffeeberry	FRCA12								L/L	L/L	L/L	L/L	L/L			

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<i>R. crocea</i> (S)	Spiny redberry	RHCR							L/M	L/M			L/M			
<i>R. ilicifolia</i> (S)	Holly-leaf redberry	RHIL							L/M			L/M	L/M			L/M
<i>R. purshiana</i> (Now <i>FRANGULA purshiana</i>) (S)	Cascara sagrada	FRPU7	FAC					L/L		L/L	L/L		L/L	L/L		
<i>R. rubra</i> (Now <i>FRANGULA rubra</i>) (S)	Sierra coffeeberry	FRRU												L/L	L/L	L/L
<i>R. tomentella</i> (Now <i>FRANGULA californica</i> ssp. <i>tomentella</i>) (S)	Hoary coffeeberry	FRCAT2								L/L		L/L	L/L			L/L
RHODODENDRON (p. 706)	RHODODENDON, AZALEA															
<i>R. columbianum</i> (Formerly <i>LEDUM glandulosum</i>)	Western labrador tea	RHCO	OBL	6	C	C		L/L	L/L		L/L			L/L	L/L	
<i>R. macrophyllum</i> (PO) (S)	Calif. rhododendron	RHMA3	FACU								L/L					L/L
<i>R. occidentale</i> (PO) (S)	Western azalea	RHOC	FAC					L/L		L/L						L/L
RHUS (p. 170)	SUMAC															
<i>R. aromatica</i> (Formerly <i>R. trilobata</i>) (S)	Skunk-bush sumac	RHAR4	UPL						L/L	L/L		L/L	L/L	L/L		
<i>R. integrifolia</i>	Lemonade berry	RHIN2							L/L	L/L				L/L		
<i>R. ovata</i> (S)	Sugar-bush sumac	RHOV							L/L	L/L						
RIBES (p. 823)	GOOSEBERRY, CUR-RANT															
<i>R. amarum</i>	Bitter gooseberry	RIAM								L/L		L/L	L/L			
<i>R. aureum</i> and var.	Golden currant	RIAU	FAC	6		C	C	H/M			H/M		H/M		H/M	H/M
<i>R. californicum</i> and var.	California or hillside gooseberry	RICA									L/L		L/L	L/L		
<i>R. cereum</i> and var.	Wax currant	RICE	FACU	6			C	L/M	L/M		L/M			L/M	L/M	
<i>R. inerme</i> and var.	White-stem gooseberry	RIIN2	FAC	6		C		L/L	L/L		L/L			L/L	L/L	

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<i>R. lasianthum</i>	Woolly-flowered gooseberry	RILA2										L/L		L/L					
<i>R. malvaceum</i> and var.	Pink chaparral currant	RIMA										L/L	L/L		L/L	L/L			
<i>R. menziesii</i> and var.	Canyon gooseberry	RIME										L/L	L/L		L/L	L/L		L/L	
<i>R. montigenum</i>	Western or Mtn. prickly gooseberry	RIMO2									L/L	L/L		L/L				L/L	L/L
<i>R. nevadense</i>	Mountain pink currant	RINE	FAC								L/L	L/L		L/L				L/L	L/L
<i>R. roezlii</i> and var.	Sierra gooseberry	RIRO		6							L/L			L/L	L/L	L/L	L/L	L/L	L/L
<i>R. sanguineum</i> and var.	Red flowering currant	RISA	FACU											L/L	L/L				
<i>R. speciosum</i>	Fuschia-flowered gooseberry	RISP										L/L	L/L						
<i>R. velutinum</i>	Desert gooseberry	RIVE												L/L				L/L	L/L
<i>R. viscosissimum</i> (VS)	Sticky currant	RIVI3	FAC								L/L							L/L	L/L
ROSA (p. 1199)	WILD ROSE																		
<i>R. bridgesii</i>	Sierran dwarf rose	ROBR3																	L/L
<i>R. californica</i> (S)	California wild rose	ROCA2	FAC								L/M			L/M		L/M			L/M
<i>R. gymnocarpa</i> and var. (S)	California Wood rose	ROGY	FACU											L/L		L/L		L/L	L/L
<i>R. pinetorum</i> (S)	Pine rose	ROPI												L/L					L/L
<i>R. pisocarpa</i> (S)	Clustered wild rose	ROPI2	FAC											L/L					
<i>R. spithamea</i> (S)	Coast ground rose	ROSP3												L/L		L/L	L/L	L/L	L/L
<i>R. woodsii</i> and ssp. (S)	Wood's rose	ROWO	FACU	6		I	I		L/M	L/M		L/M					L/M	L/M	
RUBUS (p. 1202)	RASPBERRY, BLACK-BERRY																		
<i>R. armeniacus</i> * (S)	Himalayan blackberry	RUAR9	FACU											L/L					L/L
<i>R. glaucifolius</i> (S)	Wax-leaf raspberry	RUGL												L/L		L/L			L/L

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<i>R. leucodermis</i> (S)	White-bark raspberry	RULE	FACU					L/L			L/L			L/L		L/L	
<i>R. parviflorus</i> (S)	Western thimbleberry	RUPA	FACU	6				L/M		L/M	L/M					L/M	
<i>R. spectabilis</i> (S)	Pacific salmonberry	RUSP	FAC	6				L/L			L/L						
<i>R. ursinus</i> (S)	California blackberry	RUUR	FACU					L/L			L/L		L/L			L/L	
<i>SALIX</i> (S) (p. 1225)	WILLOW																
<i>S. arctica</i> (Now <i>S. petrophylla</i>) (S)	Arctic willow	SAPE18	FAC	5	C	C	C	L/M	L/M							L/M	
<i>S. bebbiana</i> (S)	Bebb's willow	SABE2	FACW	9	C	C		L/M								L/M	
<i>S. boothii</i> (S)	Booth's willow	SABO2	FACW	9	C	C		L/M	L/M								
<i>S. drummondiana</i> (S)	Drummond's willow	SADR	FACW	9	C	C		L/M	L/M							L/M	
<i>S. eastwoodiae</i> (S)	Sierra willow	SAEA	FACW	9	C	C		L/M	L/M							L/M	
<i>S. exigua</i> and var. (S)	Coyote willow	SAEX	FACW	7	C	C		L/M								L/M	
<i>S. geyeriana</i> (S)	Geyer's willow	SAGE2	FACW	9	C	C		L/M	L/M		L/M					L/M	
<i>S. goodingii</i> (S)	Gooding's black willow	SAGO	FACW	9	C	C		L/M		L/M	L/M	L/M	L/M			L/M	
<i>S. jepsonii</i> (S)	Jepson's willow	SAJE	OBL	9	C	C		L/M	L/M		L/M						
<i>S. laevigata</i> (S)	Red willow	SALA3	FACW	9	C	C		L/M			L/M					L/M	
<i>S. lasiolepis</i> (S)	Arroyo willow	SALA6	FACW	9	C	C		L/M			L/M		L/M			L/M	
<i>S. lasiandra</i> and var. (Formerly <i>S. lucida</i> ssp.) (S)	Pacific shining willow	SALA5	FACW	9	C	C		L/M	L/M		L/M		L/M			L/M	
<i>S. lemmonii</i> (S)	Lemmon's willow	SALE	FACW	9	C	C		L/M	L/M		L/M					L/M	
<i>S. ligulifolia</i> (S)	Strap-leaf willow	SALI	FAC	9	C	C		L/M	L/M							L/M	
<i>S. lutea</i> (S)	Western yellow willow	SALU2	FACW	9	C	C		L/M	L/M		L/M					L/M	
<i>S. melanopsis</i> (S)	Dusky willow	SAME2	OBL	9	C	C		L/M	L/M		L/M		L/M			L/M	
<i>S. oreastera</i> (S)	Gray-leaf Sierra willow	SAOR	FACW	9	C	C		L/M	L/M							L/M	

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Botanical Name - Shrubs and Trees	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock									
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF	
<i>S. petrophylla</i> (Formerly <i>S. arctica</i>) (S)	Arctic willow	SAPE18	FAC	5	C	C		L/M	L/M							L/M	
<i>S. planifolia</i> (S)	Tea-leaved willow	SAPL2	OBL	9	C	C		L/M	L/M								
<i>S. prolixa</i> (S)	Mackenzie's willow	SAPR3	OBL	9	C	C		L/M								L/M	
<i>S. scouleriana</i> (S)	Scouler's willow	SASC	FAC	8	C	C		L/M	L/M		L/M				L/M	L/M	
SALVIA (p. 852)	SAGE																
<i>S. apiana</i>	California white sage	SAAP2								L/L	L/L				L/L		
<i>S. clevelandii</i>	Cleveland's blue sage	SACL								L/L	L/L						
<i>S. dorrii</i> and var.	Great Basin blue sage	SADO4								L/L					L/L		
<i>S. leucophylla</i>	California purple sage	SALE3								L/L	L/L		L/L				
<i>S. mellifera</i> (S)	California black sage	SAME3								L/L	L/L						
SAMBUCUS Fam: ADOXACEAE from CAPRIFOLIACEAE (p. 160)	ELDERBERRY																
<i>S. nigra</i> ssp. <i>caerulea</i> (Formerly <i>S. mexicana</i>) (S)	Western blue elderberry	SANIC4	FACU					L/H	L/H		L/H		L/H		L/H		
<i>S. racemosa</i> var. <i>melanocarpa</i> (Formerly <i>S. melanocarpa</i>) (S)	Black elderberry	SARAM4	FACU	6	C	C		L/L								L/L	
<i>S. racemosa</i> var. <i>racemosa</i> (Formerly <i>S. racemosa</i> var. <i>microbotrys</i>)	Red elderberry	SARAR	FACU						H/H		H/H					H/H	
SARCOBATUS Fam: SARCOBATACEAE from CHENOPODIACEAE (p. 1231)	GREASEWOOD																
<i>S. vermiculatus</i>	Black greasewood	SAVE4	FACU													L/L	
SHEPHERDIA (p. 682)	BUFFALO-BERRY																
<i>S. argentea</i> (S)	Silver buffalo-berry	SHAR	FACU		C	C		L/L		L/L					L/L		
<i>S. canadensis</i> (S)	Canadian buffalo-berry	SHCA	UPL					L/L							L/L		

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Botanical Name - Shrubs and Trees	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock								
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF
SORBUS (p. 1205)	MOUNTAIN ASH															
<i>S. californica</i> (S)	California mountain ash	SOCA8						L/L	L/L		L/L					L/L
<i>S. scopulina</i> (S)	Cascade mountain ash	SOSC2	FACU	6				L/L	L/L							L/L
<i>S. sitchensis</i> and var.	Sitka mountain ash	SOSI2	FAC	6				L/L	L/L		L/L					L/L
SPARTIUM (p. 788)	SPANISH BROOM															
<i>S. junceum</i> *	Spanish broom	SPJU2								L/L	L/L					
SPIRAEA (p. 1205)	SPIREA															
<i>S. douglasii</i> (S)	Douglas's spiraea	SPDO	FACW	5	C	C		L/M	L/M		L/M					L/M L/M
<i>S. splendens</i> (Formerly <i>S. densiflora</i>) (S)	Rose meadow-sweet	SPSP2						L/M	L/M		L/M					L/M
SYMPHORICARPOS (p. 602)	SNOWBERRY															
<i>S. albus</i> var. <i>laevigatus</i> (S)	Common snowberry	SYAL	FACU	5				L/M			L/M		L/M			L/M
<i>S. mollis</i> (S)	Creeping snowberry	SYMO	FACU	5					L/M		L/M		L/M	L/M	L/M	L/M
<i>S. rotundifolius</i> and var. (VS)	Round-leaf mtn. snowberry	SYRO							L/M							L/M L/M
TOXICODENDRON (p. 171)	POISON OAK															
<i>T. diversilobum</i> (S)	Western poison oak	TODI	FAC							L/L	L/L	L/L	L/L	L/L		
TRICHOSTEMA (p. 859)	BLUE CURLS															
<i>T. lanatum</i> (S)	Woolly bluecurls	TRLA3								L/L	L/L					
<i>T. parishii</i> (S)	Parish's bluecurls	TRPA3								L/L	L/L					
UMBELLULARIA (p. 155)	CALIFORNIA LAUREL															
<i>U. californica</i> (S)	Calif. Bay laurel	UMCA	FAC								L/M		L/M	L/M		L/M
VACCINIUM (p. 708)	HUCKLEBERRY															
<i>V. cespitosum</i> (S)	Dwarf bilberry	VACE	FAC	6	C	C		L/M	L/M		L/M					L/M
<i>V. deliciosum</i>	Cascade bilberry	VADE								L/L		L/L				L/L L/L

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Botanical Name - Shrubs and Trees	Common Name	Plant Code	Wetland Rating	Meadow				Resource Value Rating for Livestock									
				GLR	Wet	Mesic	Dry	R	SA	CS	CR	AG	FO	CH	SS	CF	
<i>V. membranaceum</i> (S)	Thin-leaf huckleberry	VAME	FACU					L/M	L/M						L/M	L/M	
<i>V. ovatum</i> (S)	California huckleberry	VAOV2	FACU								L/M					L/M	
<i>V. parvifolium</i>	Red huckleberry	VAPA	FACU								L/L					L/L	
<i>V. uliginosum</i> ssp. <i>occidentale</i>	Western or Bog blue-berry	VAULO	FACW	6	C	C		L/M	L/M		L/M					L/M	
<i>VITIS</i> (p. 1278)	WILD GRAPE																
<i>V. californica</i> (S)	California wild grape	VICA5	FACU					L/L			L/L	L/L	L/L				
<i>V. girdiana</i> (S)	Desert wild grape	VIGI2	FAC					L/L		L/L	L/L				L/L		
<i>WHIPPLEA</i> Fam: HYDRANGEACEAE from PHILADELPHACEAE (p. 830)	MODESTY																
<i>W. modesta</i>	Common whipplea	WHMO								L/L	L/L			L/L			

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COLUMN DESCRIPTIONS

Genus and species, followed with a 'P' indicates the plant is poisonous.

Y Forage preference: year-long

S Forage preference: spring

S Forage preference: summer

F Forage preference: fall

W Forage preference: winter

Column headings identify the kind of animal rated. The 'E' column indicates erosion control potential (watershed protection).

DEFINITIONS

Preference for cattle, sheep, horse, and mule deer is based on the relish and degree of use shown by an animal for a plant or plant part.

H= High highly relished and consumed to a high degree

M= Moderate moderately relished and consumed to a moderate degree

L= Low not relished and normally consumed only to a small degree or not at all

Watershed protection is based on the growth habit, structure, biomass, or root system characteristics of individual species to reduce soil erosion.

H= High plant has an aggressive growth habit, persistent plant structure, high potential biomass, or good soil-binding root-rhizome runner system in established stands.

M= Moderate plant has a moderately aggressive growth, moderately persistent plant structure, moderate potential biomass, or a moderate soil-binding rhizome runner system in established stands.

L= Low plant that has poor growth persistence, low biomass, or a soil-binding root system that makes it generally inadequate for erosion control.

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Stipa comata</i> (<i>Hesperostipa</i>)	HHMLH	MHLLM	HHMLH	MHLLM	M	Needle and thread
<i>Stipa hymenoides</i> (<i>Achnatherum</i>)	HHHMH	HHHMH	HHHMH	MHMMH	H	Western Mtn. ricegrass
<i>Stipa kingii</i> (<i>Ptilagrostis</i>)	HHHMM	MHHMM	HHHMH	MHMMH	M	Sierra ricerass, King's ricegrass
<i>Stipa latiglumis</i> (<i>Achnatherum</i>)	HHHMH	HHHMH	HHHMH	MHHMM	M	Sierra needlegrass
<i>Stipa lemmonii</i> (<i>Achnatherum</i>)	HHHML	HHHML	HHHMM	MHMMI	M	Lemmon's needlegrass
<i>Stipa lepida</i>	HHHML	HHHML	HHHMM	MHMMI	M	Foothill needlegrass
<i>Stipa nevadensis</i>	HHHML	HHHML	HHHMM	MHMMI	M	Nevada needlegrass
<i>Stipa occidentalis</i> and ssp. (<i>Achnatherum</i>)	HHHML	MMMML	HHHML	MMMML	M	Western needlegrass
<i>Stipa pulchra</i> (<i>Nassella</i>)	MHMLL	MMMLL	MHMML	MMMLL	H	Purple needlegrass
<i>Stipa speciosum</i> (<i>Achnatherum</i>)	HHHML	MHHML	HHHML	MHHML	M	Desert needlegrass
<i>Stipa thurberianum</i> (<i>Achnatherum</i>)	MMMLM	MMMLM	HHHLM	MMMLM	M	Thurber's needlegrass
<i>Aira caryophyllea</i>	LMLLL	MMLLL	LMLLL	LLLLL	L	Common silver hairgrass
<i>Agropyron cristatum</i> ssp <i>pectinatum</i>	MHMMM	MHMMM	HHHHH	MHLLM	M	Crestedwheatgrass
<i>Agrostis exarata</i>	MMMLL	LMLLL	MHMMM	LMLLL	M	Spike redtop, Spike bentgrass
<i>Agrostis humilis</i>	MMMLL	LMLLL	MHMMM	JMLLL	M	Alpine bentgrass, Low bentgrass
<i>Agrostis gigantea</i> *	MMMLL	LMLLL	MHMMM	LMLLL	M	Large bentgrass
<i>Agrostis idahoensis</i>	MHMLL	LMLLL	MHMMM	LMLLL	M	Idaho bentgrass
<i>Agrostis oregonensis</i>	MHMLL	LMLLL	MHMMM	MHMLL	M	Oregon bentgrass
<i>Agrostis stolonifera</i> *	MMMLL	LMLLL	MHMMM	LMLLL	M	Creeping bentgrass, Redtop
<i>Agrostis scabra</i>	MHMLL	LMLLL	MMMLL	LMLLL	L	Rough ticklegrass
<i>Agrostis variabilis</i>	MHMLL	LMLLL	MMHLL	MMHLL	M	Mountain bentgrass
<i>Alopecurus aequalis</i>	MMMMM	MMMLM	MMMLL	MMLLM	M	Shortawn foxtail
<i>Alopecurus pratensis</i> *	MMMMM	MMMLM	MMMLL	MMLLM	M	Common meadow foxtail

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Arrhenatherum elatius</i> *	MMMMM	MMLLM	MHMMM	MMLLM	H	Tall false oatgrass
<i>Avena barbata</i> *	MHHML	MHLLM	MHMMM	LMLL	L	Slender wild oat
<i>Avena fatua</i> *	MHHML	MHL-M	MHMMM	LML-L	L	Wild oat
<i>Beckmannia syzigachne</i>	MMLLL	LMLLL	LMLLL	LMLLL	M	American sloughgrass
<i>Bouteloua eriopoda</i>	MHMMM	MMMLM	MMMMM	LMLLL	H	Black grama
<i>Bouteloua gracilis</i>	MHMMM	MMMLM	MMMMM	LMLLL	H	Blue grama
<i>Briza maxima</i>	LMLLL	MMLLL	MMLLL	LMLLL	L	Big quaking grass, Rattlesnake grass
<i>Briza minor</i>	LMLLL	MMLLL	MMLLL	LMLLL	L	Little quaking grass
<i>Bromus arenarius</i>	MHM--	HHM--	HHM--	MMM--	L	Australian chess
<i>Bromus briziformis</i> *	MHL--	MML--	HHL--	MML--	L	Rattlesnake chess
<i>Bromus carinatus</i>	HHHMM	MHMMM	MHMMM	MMMLL	M	California brome
<i>Bromus carinatus</i> var. <i>marginatus</i>	HHHMM	MHMMM	MHMMM	MMMLL	M	Mountain brome
<i>Bromus ciliatus</i>	MHHMM	MHMMM	HHHMM	MHMMM	M	Fringed brome
<i>Bromus diandrus</i> * (M)	LML--	LLL--	LML--	LML--	L	Ripgut brome
<i>Bromus hordaceous</i> *	HHM--	HHM--	HHM--	MMM--	L	Soft chess brome
<i>Bromus madritensis</i>	MML--	MML--	MML--	MML--	L	Foxtail chess
<i>Bromus inermis</i>	HHHMM	MHMMM	HHHMM	MMMLM	H	Smooth brome, Awnles brome
<i>Bromus madritensis</i> ssp. <i>rubens</i> * (M)	MML--	MML--	MML--	MML--	L	Red brome, Foxtail brome
<i>Bromus orcuttianus</i>	HHHMM	HHHMM	HHHMM	HHHMM	H	Orcutt's brome
<i>Bromus tectorum</i> * (M)	LMLLL	MHLL	LMLLL	MHLL	L	Cheatgrass
<i>Calamagrostis breweri</i>	HHHMM	MMHLL	HHMLM	MMMLL	H	Brewer's reedgrass
<i>Calamagrostis canadensis</i>	HHHMM	MMHLL	MHHMM	MMMLL	H	Canada bluejoint reedgrass
<i>Calamagrostis purpurascens</i>	MHHMM	LHHML	HHHHM	MMMLL	M	Purple reedgrass

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Calamagrostis rubescens</i>	MHHHM	LMMLL	MHHHM	MMLLM	H	Reddish reedgrass
<i>Cynodon dactylon</i> *	LMLLL	LMLLL	LMLLL	L	H	Bermuda grass
<i>Dactylis glomerata</i> **	HHHHM	HHHHM	HHHHM	HHHHM	H	Orchard grass
<i>Danthonia californica</i>	MHHMM	MMMMM	HHHHM	MMMMM	M	California oatgrass
<i>Danthonia intermedia</i>	HHHHL	MMMLL	HHHHL	HHHHL	M	Timber oatgrass
<i>Danthonia unispicata</i>	MHMMML	MHMMML	HHHHL	MMMLL	M	Onespike oatgrass
<i>Deschampsia cespitosa</i>	HHHHM	MHMMMM	HHHMM	MMMLL	H	Tufted hairgrass
<i>Distichlis spicata</i>	MMMLL	LLLLL	MMMLL	LLLLL	H	Spiked saltgrass
<i>Echinochloa crusgalli</i> *	MMMLL	MMMLL	MMMLL	MMMLL	L	Common barnyard grass
<i>Elymus cinereus</i> (<i>Leymus</i>)	HHMMH	MMLLL	HHLLM	MHMMM	H	Great Basin wildrye
<i>Elymus condensatus</i> (<i>Leymus</i>)	MMLLL	LMLLL	HHMMH	LMLLL	H	Giant wildrye
<i>Elymus elymoides</i>	MHLLL	MHLLL	MHLLL	MHLLL	M	Bottlebrush squirreltail
<i>Elymus glaucus</i>	MHHLM	MHMLL	HHMLM	MMMLM	H	Blue wildrye
<i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>	MHHMM	MHMMM	HHHMH	MMMMM	M	Slender wheatgrass
<i>Elymus triticoides</i> (<i>Leymus</i>)	MHMLM	LMLLL	MHMLM	LMLLL	H	Beardless wildrye
<i>Elymus ponticus</i> *	MMMLM	MMMLM	HHMMM	MMMLM	H	Tall wheatgrass
<i>Elymus hispidus</i> *	MHMMM	MHMMM	MHMMM	MHMMM	H	Intermediate wheatgrass
<i>Elymus smithii</i> (<i>Pascopyrum</i>)	MHHMM	MHLLM	MHHMM	MHLLM	H	Western wheatgrass
<i>Elymus spicatus</i> (<i>Pseudogneria</i>)	HHHMM	MHLLM	MHHMM	MMMLM	H	Bluebunch wheatgrass
<i>Eragrostis hypnoides</i>	LLLLL	LLLLL	MMMLL	LLMLL	M	Teal lovegrass
<i>Festuca arundinacea</i> *	HHHMM	MMMMM	HHHMH	MMMLM	H	Tall meadow fescue
<i>Festuca brachyphylla</i> ssp. <i>breviculmis</i>	HHHHM	MHHMM	HHHHH	MHMMM	M	Alpine fescue

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Festuca microstachys (Vulpia)</i>	LML--	LMM--	LML--	LMM--	L	Reflexed annual fescue
<i>Festuca myuros (Vulpia)</i>	LML--	LMM--	LML--	MMM--	L	Rattail fescue
<i>Festuca idahoensis</i>	HHHHH	MHHMM	HHHHH	MHMMM	M	Idaho fescue
<i>Festuca octoflora (Vulpia)</i>	LML--	MMM--	LML--	MMM--	L	Six-weeks fescue
<i>Festuca perennis (Lolium)</i>	MHHMM	HHHMM	HHHMM	MMMLL	M	Perennial ryegrass
<i>Festuca pratensis</i> *	HHHHM	HHHMM	HHHHM	MHMMM	H	Meadow fescue
<i>Festuca rubra</i>	HHHMM	MHMLM	HHHMM	MMMMM	H	Red fescue
<i>Festuca viridula</i>	HHHHM	HHHMM	HHHHM	MHMMM	H	Greenleaf fescue
<i>Glyceria borealis</i>	HHHHM	MMMLM	HHHHM	MHHM	H	Boreal mannagrass
<i>Glyceria elata</i>	HHHHM	MMMLM	HHHHM	LLLLL	H	Tall mannagrass
<i>Glyceria striata</i>	HHHHM	MLMML	HMHHM	LMLLL	H	Fowl mannagrass
<i>Holcus lanatus</i>	LMMML	MMMLM	HMHHM	LMMLL	H	Common velvet grass
<i>Hordeum brachyantherum</i>	MMMLL	LMLLL	MHMLL	MHLLL	M	Northern meadow barley
<i>Hordeum b. ssp. californicum.</i>	MLLLL	LMLLL	MHLL	MHLL	M	California meadow barley
<i>Hordeum jubatum</i>	MHLML	LMLLL	MHLML	MHLML	L	Foxtail barley
<i>Hordeum marinum ssp.gussoneanum</i>	LML--	MMM--	LML--	MMM--	L	Mediterranean barley
<i>Hordeum murinum ssp. leporinum</i>	LML--	MMM--	LML--	MMM--	L	Hare barley
<i>Koeleria macrantha</i>	MHHMM	MHHMM	MHHMM	MHHMM	M	Prairie Junegrass
<i>Melica bulbosa</i>	HHHHM	MHMMM	HHHHH	MHMMM	M	Bulbous melic grass
<i>Melica californica</i>	HHHHM	MHMMM	HHHHH	MHMMM	M	California melic grass
<i>Melica spectabilis</i>	HHHHM	MHMMM	HHHHH	MHMMM	M	Purple oniongrass
<i>Muhlenbergia asperifolia</i>	M	M	M	M	L	Scratchgrass muhly

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Muhlenbergia filiformis</i>	M	M	M	M	L	Pull-up muhly
<i>Muhlenbergia montana</i>	MHHMM	MMMMM	MHMMM	MMMMM	M	Mountain muhly
<i>Muhlenbergia richardsonis</i>	MMMLL	LMLLL	MMMLL	MMMLL	M	Mat muhly
<i>Panicum accuminatum</i> and ssp.	MMMLL	LMLLL	MMMLL	LMLLL	M	Western panicgrass
<i>Phalaris aquatica</i> *	MHHLL	MHMLL	HHHML	MMMLL	H	Hardinggrass
<i>Phalaris arundinacea</i>	MHMLL	MMMLL	MHMLL	MMMLL	H	Reed canarygrass
<i>Phleum alpinum</i>	HHHHL	MHHML	HHHHM	MMMMM	M	Alpine timothy
<i>Phleum pratense</i> *	HHHHM	MHHHM	MMLLM	MMHHM	M	Common timothy
<i>Hilaria jamesii</i> (<i>Pleuraphis</i>)	HHHHM	MHMM-	HHHHM	MMHMM	H	James' galleta grass
<i>Hilaria rigida</i> (<i>Pleuraphis</i>)	HHHML	MHMLL	HHHML	MHMLL	M	Big galleta grass
<i>Poa bulbosa</i> *	LMMLL	MHMLM	MHMLM	MHMLM	L	Bulbous bluegrass
<i>Poa compressa</i> *	HHHHM	HHHHM	HHHHM	HHHHM	M	Canada bluegrass
<i>Poa cusickii</i>	HHHMM	HHHMM	HHHMM	HHHMM	M	Cusick bluegrass
<i>Poa cusickii</i> ssp. <i>epilis</i>	HHHMM	HHHMM	HHHMM	HHHMM	M	Skyline bluegrass
<i>Poa fendleriana</i>	HHHHM	HHHMM	HHHHM	MHMMM	M	Fendler's bluegrass, Mutton b.g.
<i>Poa fendleriana</i> ssp. <i>longiligula</i>	HHHHM	HHHMM	HHHHM	MHMMM	M	Long-tongue mutton bluegrass
<i>Poa pratensis</i> ssp. <i>pratensis</i> *	HHHHH	HHHMM	HHHHM	HHHMH	H	Kentucky blurgrass
<i>Poa secunda</i> and ssp.	MHLMM	MHLMM	MHLMM	MHLMM	M	Sandberg's bluegrass
<i>Poa wheeleri</i>	HHHMM	MMMMM	HHHMM	MMMLL	M	Wheeler bluegrass
<i>Sporobolus airoides</i>	MHMMM	MMMLL	HHHMM	LMLLL	H	Alkali sacaton
<i>Sporobolus cryptandrus</i>	MMMLL	MMMLL	MMMLL	MMMLL	M	Sand dropseed
<i>Trisetum spicatum</i>	HHHHM	MHMMM	HHHHM	MHMMM	L	Spike trisetum

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
GRASSLIKES						
<i>Carex abrupta</i>	MHHMM	MMMML	MMMMM	MMMMM	H	Abruptbeak sedge
<i>Carex amplifolia</i>	MHHMM	MMMML	MMMMM	MMMMM	H	Big-leaf sedge
<i>Carex aquatilis</i>	HHHHM	MMMMM	MHMMM	MMMMM	H	Water sedge
<i>Carex athrostachya</i>	MHHMM	MMMML	MMMMM	MMMMM	H	Long-bracted sedge
<i>Carex douglasii</i>	MHMLL	LLMLL	MHMLL	MMMLL	M	Douglas sedge
<i>Carex echinata</i> and ssp.	MMMLL	LLMLL	MHHLL	MMMLL	H	Prickly sedge, Star sedges
<i>Carex filifolia</i> var. <i>erostrata</i>	MMMLL	MMMLL	MMMMM	LMLLL	H	Shorthair sedge
<i>Carex filifolia</i>	MMMLL	MMMLL	MMMMM	LMLLL	H	Threadleaf sedge
<i>Carex filifolia</i> var. <i>erostrata</i>	MMMLL	MMMLL	MMMMM	LMMLL	H	Short-hair sedge
<i>Carex geyeri</i>	HHHMM	LMMLL	HHHMM	MHMMM	M	Geyer's sedge, Elk sedge
<i>Carex heteroneura</i>	MHHMM	MMMLL	MMMMM	MMMMM	M	Variable-nerved sedge
<i>Carex integra</i>	MHHMM	MMMLL	MMMMM	MMMMM	H	Smooth-beak sedge
<i>Carex lenticularis</i>	MHHMM	MMMLL	MHMMM	MMMMM	H	Lens sedge
<i>Carex lemmontii</i>	MHHMM	MMMLL	MHMMM	MMMMM	H	Lemmon's sedge
<i>Carex jonesii</i>	MHHMM	MMMLL	MMMMM	MMMMM	M	Jones' sedge
<i>Carex mariposana</i>	MHHMM	MMMLL	MHMMM	MMMMM	H	Mariposa sedge
<i>Carex pellita</i>	MHHMM	MMMLL	MMMMM	MMMMM	H	Woolly sedge
<i>Carex microptera</i>	HHHHM	MHMMM	HHHHM	MMMLL	M	Small-winged sedge
<i>Carex nebrascensis</i>	HHHHM	MHMMM	HHHHM	MMMMM	H	Nebraska sedge
<i>Carex nigricans</i>	MHHMM	MMMLL	MMMMM	MMMMM	H	Black alpine sedge
<i>Carex praegracilis</i>	MHHMM	MMMLL	MMMMM	MMMMM	H	Clustered field sedge
<i>Carex praticola</i>	MHHMM	MMMLL	MMMMM	MMMMM	H	Meadow sedge

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Carex raynoldsii</i>	MHHMM	MMMML	MMMMM	MMMMM	H	Raynold's sedge
<i>Carex rossii</i>	MMLL	LMLL	LMLL	LMLL	H	Ross' sedge
<i>Carex scopulorum var. bracteosa</i>	HHHHM	MMML	MHMM	MMMM	H	Holm's Rocky Mtn. sedge
<i>Carex simulata</i>	HHHHM	MMMM	HHHH	MMML	H	Shortbeak sedge
<i>Carex subnigricans</i>	MHHMM	MMMM	MMMM	MMMM	H	Dark alpine sedge
<i>Carex subfuscata</i>	HHHHM	MMMM	HHHH	MMML	H	Rusty sedge
<i>Carex utriculata</i>	LLMML	MMMM	LMLL	LMLL	H	Beaked sedge
<i>Carex vesicaria</i>	LLMML	MMMM	LMHLL	LMLL	H	Blister sedge
<i>Cyperus eragrostis</i>	LLML	LMLL	LMLL	LMLL	H	Tall flatsedge
<i>Cyperus squarrosus</i>	LMLL	LMLL	LMLL	LMLL	H	Square-umbrella sedge
<i>Eleocharis palustris</i>	MMML	MMMM	MMML	MMLL	H	Pale spikerush
<i>Eleocharis macrostachya</i>	MMML	MMMM	MMML	MMLL	H	Long-stemmed spikerush
<i>Eleocharis montevidensis</i>	MMML	MMMM	MMML	LMLL	H	Dombeys' spikerush
<i>Eleocharis quinquefolia</i>	MMML	MMMM	MMML	LMLL	H	Few-flowered spikerush
<i>Eriophorum crinigerum</i>	MMML	MMMM	MMML	LMLL	M	Sierra cottongrass
<i>Juncus balticus</i>	MMML	MMMM	MHLL	LMLL	H	Baltic rush
<i>Juncus effusus</i>	MHML	MMMM	MHLL	LMLL	H	Bog rush
<i>Juncus ensifolius</i>	HHML	HHML	HHHM	LMLL	H	Swordleaf rush
<i>Juncus longistylis</i>	MHMM	LMLL	MHLL	LMLL	H	Long-styled rush
<i>Juncus nevadensis</i>	MHHML	MHML	HHHM	LMLL	H	Sierra rush, Nevada rush
<i>Juncus mexicanus</i>	MHHML	MHML	HHHM	LMLL	H	Mexican rush
<i>Juncus orthophyllum</i>	HHHMM	HHML	HHHM	LMLL	H	Straight-leaved rush
<i>Juncus oxymeris</i>	HHHMM	HHML	HHHM	LMLL	H	Pointed rush

GRASS AND GRASSLIKE RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Juncus parryi</i>	MHMMM	LMLL	MHLL	LMLL	H	Parry's rush
<i>Juncus tenuis</i>	MHHML	LMLL	MHLL	LMLL	H	Poverty rush
<i>Luzula comosa</i> and var.	MHHMM	MHMM	HHHMM	LMLL	M	Common woodrush
<i>Luzula divaricata</i>	MHHMM	MHMM	HHHMM	LMLL	M	Forked woodrush
<i>Luzula parviflora</i>	MHHMM	MHMM	HHHMM	LMLL	M	Small-flowered woodrush
<i>Luzula spicata</i>	MHHMM	MHMM	HHHMM	LMLL	M	Spike woodrush
<i>Luzula subcongesta</i>	MHHMM	MHMM	HHHMM	LMLL	M	Mountain woodrush
<i>Schoenoplectus americanus</i> (<i>Scirpus</i>)	MLMML	LLMM	LMM	LLLL	H	American bulrush
<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	MLMML	LLMM	LMM	LLLL	M	Tule, Hard-stem bulrush
<i>Scirpus congonii</i>	MHHMM	LMM	HHHMM	LMLL	H	Congdon's bulrush
<i>Scirpus microcarpus</i>	MHHMM	LMM	HHHML	LMLL	H	Paniced bulrush

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Achillea millefolia</i>	LMLL	HMMML	LLLL	MMML	M	Common yarrow
<i>Aconitum columbianum</i> (PO)	LLLL	MMML	LLLL	MMML	M	Columbian monkshood
<i>Actaea rubra</i>	LLLL	LMLL	LLLL	LMLL	M	Red baneberry
<i>Agastache parvifolia</i>	MMML	HHHL	MMML	LMM	M	Small-leaved horsemint
<i>Agastache urticifolia</i>	MMML	HHHL	MMML	LMM	M	Nettle-leaf horsemint
<i>Agoseris aurantiaca</i> var. <i>aurantiaca</i>	MMMM-	HHHL	MMML	LMM	L	Orange-flowered agoseris

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Agoseris glauca var. glauca</i>	HHHM-	HHHM-	MMML-	HHHM-	L	Glaucus agoseris
<i>Agoseris grandiflora</i>	HHHM-	HHHM-	MMML-	HHHM-	L	Large-flowered agoseris
<i>Agoseris monticola</i>	HHHM-	HHHM-	MMML-	HHHM-	L	Sierra Nevada agoseris
<i>Allium validum</i>	LMLLL	LMLLL	LMMLL	LLM LL	M	Mtn. swamp onion
<i>Amaranthus blitoides</i>	LLLL--	MMML-	LLLL--	MMML-	M	Mat amaranth
<i>Amaranthus californicus</i>	MMML-	HHMM-	MMMM-	HHHM-	L	California amaranth
<i>Anaphalis margaritacea</i>	LLLLL	LLLLL	LML LL	LLLLL	M	Western pearly everlasting
<i>Anemone occidentalis (PO)</i>	MMML L	MMML L	LLLLL	MMML L	L	Western pasque flower
<i>Antennaria corymbosa</i>	LLLLL	MMML L	LLLLL	MMML L	M	Flattop pussytoes
<i>Antennaria media</i>	LLLLL	MMML L	LLLLL	MMML L	M	Alpine pussytoes
<i>Antennaria rosea</i>	LLLLL	MMML L	LLLLL	MMML L	H	Rosy pussytoes
<i>Apocynum cannabinum (PO)</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	California hemp dogbane
<i>Aquilegia formosa</i>	LLLLL	LMM LL	LLLLL	LMM LL	M	Western crimson columbine
<i>Arabis sp. (also see Boechera sp.)</i>	LLLLL	MMML L	LLLLL	MMML L	L	Rockcress
<i>Arenaria congesta</i>	LLLLL	LMM LL	LLLLL	LMM LL	L	Capitate sandwort
<i>Arnica chamissonis</i>	LMM LL	LM LLL	LM LLL	LMM LL	M	Tall meadow arnica
<i>Arnica cordifolia</i>	LMM LL	LM MLL	LM MLL	LMM LL	M	Heartleaf arnica
<i>Arnica latifolia</i>	LMM LL	LM LLL	LM LLL	LM LLL	M	Mountain arnica
<i>Arnica longifolia</i>	LMM LL	LM LLL	LM MLL	LMM LL	M	Spear-leaf arnica
<i>Artemisia douglasiana</i>	LLLLL	LM LLL	LM LLL	LMM LL	L	Douglas's mugwort
<i>Artemisia drununculus</i>	LLLLL	MHHHL	LLLLL	MMML L	L	Tarragon, Dragon sagewort
<i>Artemisia ludoviciana and ssp.</i>	LLLLL	HHHML	LLLLL	MMML L	M	Western mugwort
<i>Artemisia norvegica ssp. saxatalis</i>	LLLLL	HHHML	LLLLL	MMML L	L	Alpine sagewort

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Asclepias sp. (PO)</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Milkweed
<i>Oreostemma alpigenum ssp. andersonii (Aster)</i>	MMMLL	MHMML	LMMLL	MMMLL	M	Alpine aster, Tundra aster
<i>Symphyotrichum ascendens (Aster)</i>	MMMLM	MHMML	LMLLL	MMMLM	H	Western American aster
<i>Symphyotrichum campestre (Aster)</i>	MMMLM	HHMML	MMMLM	HHHML	H	Western meadow aster
<i>Symphyotrichum chilense (Aster)</i>	MMMLM	MHMML	LMLLL	MMMLM	H	Common Pacific aster
<i>Symphyotrichum foliaceum (Aster)</i>	MMMLM	MMMLM	LMLLL	MMMLM	H	Alpine leafy-bract aster
<i>Symphyotrichum spathulatum (Aster)</i>	MMMLM	MMMLM	LMLLL	MLMLM	H	Western mountain aster
<i>Sericocarpus oregonensis (Aster)</i>	MMMLM	MMMLM	LLMLL	MLMLM	H	Oregon white-topped aster
<i>Astragalus sp. (PO)</i>	LLL-	LMLL-	LLL-	LMLL-	L	Locoweed
<i>Balsamorhiza deltoidea</i>	MMMLM	MHMML	MMMLM	HHHHM	M	Deltoid balsamroot
<i>Balsamorhiza hookeri</i>	MMMLM	MHMML	MMMLM	HHHHM	M	Hooker's balsamroot
<i>Balsamorhiza sagittata</i>	MHMML	HHHMM	MHMLH	HHHHM	M	Arrow-leaf balsamroot
<i>Boechera sp. (Formerly Arabis sp.)</i>	LLL-	MMML-	LLL-	MMML-	L	Rockcress
<i>Brassica rapa</i>	MMMLL	HHHML	LMLLL	MMMMM	M	Common yellow mustard
<i>Brassica nigra</i>	MMMLL	HHHML	LMLLL	MMMMM	M	Common black mustard
<i>Brodiaea sp.</i>	MMMLL	HHHML	LMLLL	MMMMM	L	Brodiaea
<i>Calandrina sp.</i>	LMLLL	MMLL	LLLLL	LMLLL	L	Redmaids
<i>Calochortus sp.</i>	HHHM-	HHHM-	MHMM-	HHHM-	L	Mariposa lily
<i>Camassia leichtlinii ssp. suksdorfii</i>	LMMLL	MHHM-	LLLLL	MHMM-	L	Leichtlin's large camas
<i>Camassia quamash ssp. breviflora</i>	LMMLL	LLLLL	LMLLL	MHLLL	L	Common or blue camas
<i>Capsella bursa-pastoris</i> *	LLLLL	MMMMM	LLLLL	MMMMM	L	Shepherd's purse
<i>Carduus sp.</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Plumeless thistle

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Castilleja affinis</i> and ssp.	LMLLL	MMML-	LLLLL	MMMMM	M	Indian paintbrush
<i>Castilleja applegatei</i> and ssp.	MMMMML	HHHHHL	LLLLL	MMMMM	M	Applegate's paintbrush
<i>Castilleja exserta</i> and ssp.	MMMMML	HHHHHL	LLLLL	MMMMML	M	Purple owl's clover
<i>Castilleja attenuata</i>	MHMMML	HHMML	LMMLL	MMMMML	L	Valley tassels
<i>Castilleja campestris</i> and ssp.	MHMML	HHMML	LMMLL	MMMMML	L	Field owl's clover
<i>Castilleja lemmonii</i>	MHMML	HHMML	LMMLL	MMMMML	L	Lemmon's paintbrush
<i>Castilleja miniata</i> and ssp	LMLLL	LLLLL	LLLLL	MMMMML	M	Giant red paintbrush
<i>Centaurea melitensis</i>	LLLLL	LMLLL	LLLLL	MMMMML	L	Tocalote, Napa star thistle
<i>Centaurea solstitialis</i> *	LLLLL	LLLLL	LLLLL	LLLLL	L	Yellow star thistle
<i>Cerastium arvense</i> ssp. <i>strictum</i>	LLLLL	MMMMML	LLLLL	LMMML	L	Field mouse-eared chickweed
<i>Cerastium fontanum</i> ssp. <i>vulgare</i> *	LMLLL	MMMLL	LLLLL	LMMML	L	Common mouse-eared chickweed
<i>Chaenactis douglasii</i> var. <i>douglasii</i>	LLLLL	LMLLL	LLLLL	LMLLL	L	Douglas dusty maidens
<i>Chenopodium album</i> *	MMM--	HHM--	MMM--	HHMM-	L	White lamb's quarters
<i>Chenopodium hians</i>	LML--	MMM--	MMM--	HHM--	L	Masked goosefoot
<i>Cicuta douglasii</i> (PO)	LLLLL	LLLLL	LLLLL	LLLLL	M	Western water hemlock
<i>Cirsium arvense</i> *	LLLLL	LMLLL	LLLMM	LLLLL	H	Canada thistle
<i>Cirsium occidentale</i> var. <i>californica</i>	LLLLL	LMLLL	LLLMM	LLLLL	M	California thistle
<i>Cirsium scariosum</i> and var.	LLLLL	LMLLL	LLLMM	LLLLL	L	Elk thistle, Mdw. thistle
<i>Cirsium vulgare</i> *	LLLLL	LMLLL	MLMMM	LLLLL	L	Bull thistle
<i>Clarkia</i> sp.	LLLLL	LMMLL	LMLLL	LMMLL	L	Farewell -to-spring, Clarkia
<i>Claytonia lanceolata</i>	LMML-	MMMLL	MHHML	MMMMML	L	Western spring beauty
<i>Claytonia nevadensis</i>	LMMIL	MMMLL	MHHML	MMMMML	L	Sierra Nevada spring beauty
<i>Claytonia parviflora</i> and ssp.	LMMLL	MMMLL	MHHLL	MMMMML	L	Streambank spring beauty

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Claytonia perfoliata</i> and ssp.	LMMLL	MMMLL	LMMLL	MMMMM	M	Perfoliate miner's lettuce
<i>Collinsia</i> sp.	LMLLL	LMLLL	LLLLL	LMLLL	L	Blue-eyed mary
<i>Conium maculata</i> * (PO)	LLLLL	LLLLL	LLLLL	LLLLL	L	Poison hemlock
<i>Crepis acuminata</i>	MHMLL	HHHMM	LMMLL	HHHMM	L	Long-leaved hawksbeard
<i>Crepis intermedia</i>	MHMLL	HHHMM	LMMLL	HHHMM	L	Intermediate hawksbeard
<i>Crepis modocensis</i>	MHMLL	HHHMM	LMMLL	HHHMM	L	Modoc hawksbeard
<i>Crepis occidentalis</i> and ssp.	MHMLL	MHMLL	MHMLL	MHMLL	L	Western hawksbeard
<i>Cryptantha</i> sp.	LLL--	MMM--	MML--	MMM--	L	Popcorn flower
<i>Cynoglossum grande</i>	LLLLL	MMMLL	MMMLL	MMMLL	L	Pacific houndstongue
<i>Cynoglossum occidentale</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Sierra or Western houndstongue
<i>Deinandra</i> sp. (formerly: <i>Hemizonia</i> sp.)	LLLLL	LLLLL	LLLLL	LLLLL	L	Tarweed
<i>Delphinium andersonii</i> (PO)	LLLLL	LMLLL	LLLLL	LMMLL	L	Anderson's larkspur
<i>Delphinium decorum</i> and ssp. (PO)	LLLLL	LMLLL	LLLLL	LMLLL	L	Coast blue larkspur
<i>Delphinium glaucum</i> (PO)	LLLLL	LMLLL	LLLLL	LMLLL	L	Tall mountain larkspur
<i>Delphinium nuttallianum</i> (PO)	LLLLL	MMMLL	LLLLL	LLLLL	L	Nuttall's meadow larkspur
<i>Delphinium variegatum</i> and ssp.(PO)	LLLLL	MMMLL	LLLLL	MMMLL	L	Royal larkspur
<i>Descuriana californica</i>	LML--	MMM--	LLL--	LML--	L	California tansy mustard
<i>Descuriana pinnata</i> and ssp.	LML--	MMM--	LLL--	LML--	L	Western tansy mustard
<i>Descurainia sophia</i>	LML--	MMM--	LLL--	LML--	L	Eurasian tansy mustard
<i>Dichelostemma capitatum</i> and ssp.	LMLLL	MMMLL	LMLLL	MMMLM	L	Capitate blue dicks
<i>Primula tetrandra</i> (<i>Dodecatheon</i>)	MMML-	HHHM-	MLLL-	MHMM-	L	Alpine shooting star
<i>Primula hendersonii</i> (<i>Dodecatheon</i>)	LMML-	HHHM-	LMML-	MMMM-	L	Henderson's shooting star
<i>Primula jeffreyi</i> (<i>Dodecatheon</i>)	LMML-	HHHM-	LMML-	MMMM-	M	Jeffrey shooting star

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Primula fragrans</i> (<i>Dodecatheon</i>)	LMML-	HHHM-	LMML-	MMMM-	L	Scented shooting star
<i>Draba verna</i>	LMMLL	HHHMM	LMMLL	MMMLL	L	Vernal whitlow grass
<i>Epilobium anagallidifolium</i>	LMMLL	MHHML	MHHML	MMMLL	L	Alpine willow-herb
<i>Chamerion angustifolium</i> (<i>Epilobium</i>)	LMLLL	MMMLL	LLLLL	HHHML	M	Fireweed
<i>Epilobium ciliatum</i> and ssp.	LMMLL	MHHMM	LMLLL	MMMLL	M	Fringed willow-herb
<i>Epilobium glaberrimum</i> and ssp.	LMMIL	MHHML	LMLLL	MMMLL	L	Glaucus willow-herb
<i>Epilobium lactiflorum</i>	LMMLL	MHHML	LMMLL	MMMLL	L	Milk-flowered willow-herb
<i>Epilobium oreganense</i>	LMMLL	LMMLL	LMMLL	MHHML	L	Oregon spike primrose
<i>Equisetum arvense</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Common horsetail
<i>Equisetum hymale</i> ssp. <i>affine</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Common scouring rush
<i>Equisetum laevigatum</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Smooth scouring rush
<i>Erigeron algidus</i>	MMMLM	HHHMM	LLLLL	HHHMM	M	Sierra fleabane
<i>Erigeron breweri</i> and ssp.	MMMLM	HHHMM	LLLLL	HHHMM	L	Brewer's daisy
<i>Erigeron glacialis</i> and ssp. (<i>E. peregrinus</i>)	MMMLM	HHHMM	LLLLL	HHHMM	M	Subalpine daisy
<i>Eriogonum</i> sp. (Annuals)	LLLLL	LMMLL	LLLLL	MMMLL	L	Buckwheat
<i>Eriogonum</i> sp. (Perennials)	LLLLL	LMMLL	LLLLL	HHHML	M	Buckwheat
<i>Erodium botrys</i>	MHM--	LMMLL	LMM--	HHH--	L	Long-beaked storkbill
<i>Erodium brachycarpum</i>	MHLLL	LML--	LMM--	HHH--	L	Short-fruit filaree
<i>Erodium cicutarium</i> *	MHM--	HHH--	MHM--	HHH--	L	Red-stem filaree
<i>Erodium moschatum</i>	MHM--	HHH--	MHH--	HHH--	L	Musk filaree
<i>Erysimum capitatum</i>	MMML-	MHMM-	LLLL-	MHMM-	L	Western wallflower
<i>Frageria vesca</i>	LLLLL	MMMMM	LLLLL	MMMMM	M	Woodland strawberry
<i>Frageria virginiana</i>	LLLLL	MMMMM	LLLLL	MMMMM	M	Mountain strawberry

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Frasera sp. (Swertia)</i>	LLLLL	MMMMM	LLLLL	MMMMM	H	Green gentian, Deer's ears
<i>Fritillaria affinis</i>	LML--	MHM--	LLL--	MHM--	L	Coast checker lily
<i>Fritillaria autropurpurea</i>	LML--	MHM--	LLL--	MHM--	L	Spotted mission bells
<i>Fritillaria pudica</i>	LML--	MHM--	LLL--	MHM--	L	Yellow fritillary
<i>Gallium sp. (many)</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	Bedstraw
<i>Gayophytum sp. (many)</i>	LMMIL	MHHML	LLLLL	MHHML	L	Groundsmoke
<i>Gentiana calycosa</i>	LLL--	MML--	LLL--	MML--	L	Explorer's gentian
<i>Gentiana newberryi & var.</i>	LLL--	MML--	LLL--	MML--	L	Newberry's alpine gentian
<i>Gentianella amarella ssp. acuta</i>	LLL--	MML--	LLL--	MML--	L	Autumn gentian
<i>Gentianopsis holopetala</i>	LLL--	MML--	LLL-	MML--	L	Sierra fringed gentian
<i>Gentianopsis simplex</i>	LLL--	MML--	LLL--	MML--	L	Hiker's gentian
<i>Geranium californicum</i>	LLLLL	MMMLL	LLLLL	HHHML	M	California geranium
<i>Geranium carolinianum</i>	LMMIL	MMMLL	LMLLL	HHHML	L	Carolina geranium
<i>Geranium molle</i>	LMMIL	MMMLL	LMLLL	HHHML	L	Dove-foot geranium
<i>Geranium richardsonii</i>	LLLLL	MMMLL	LLLLL	MHMLL	M	Richardson's geranium
<i>Geum macrophyllum and var.</i>	LLLLL	LMLLL	LLLLL	MMMLL	L	Large-leaved avens
<i>Geum triflorum var. ciliatum</i>	LLLLL	LMLLL	LLLLL	MMMLL	L	Old man's whiskers
<i>Navarretia capillaris (Gilia)</i>	LLLLL	LMMIL	LLLLL	LMMIL	L	Smooth-leaved gilia
<i>Gilia capitata and ssp.</i>	LLLLL	MMMLL	LLLLL	MMMLL	L	Capitate gilia
<i>Gilia tricolor</i>	LLLLL	MMMLL	LLLLL	MMMLL	L	Bird's-eye gilia
<i>Grindelia camporum</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	Great valley gumplant
<i>Grindelia squarrosa var. serrulata</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	Curly-cup gumweed
<i>Hackelia sp.</i>	LLLLL	LMLLL	LLLLL	LLLLL	L	Stickseed

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Halogenet glomeratus</i> (PO)	LLL--	MMM--	LLL-	LLL--	L	Halogenet
<i>Helenium biglovei</i> (PO)	LLLLL	LLLLL	LLLLL	LLLLL	L	Biglow's sneezeweed
<i>Helianthella californica</i> and var.	MMMLL	HHHML	MMMLL	MMMLL	M	California helianthella
<i>Helianthus annuus</i>	LLLLL	MMMMM	LLLLL	MMMMM	L	Common annual sunflower
<i>Helianthus californicus</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	California sunflower
<i>Hemizonia</i> sp. (many)	LLLLL	LLLLL	LLLLL	LLLLL	L	Tarweed
<i>Heracleum maximum</i>	HHHHM	HHHHM	HHHHM	HHHHM	M	American cow parsnip
<i>Heterotheca oregana</i> and var.	LLLLL	MMMLL	LLLLL	MMMLL	M	Rayless Oregon golden aster
<i>Heterotheca villosa</i> and var.	LLLLL	MMMLL	LLLLL	MMMLL	M	Hairy golden aster
<i>Heuchera</i> sp.	LMLLL	LMMLL	LLLLL	MMMLL	M	Alumroot
<i>Hieracium albiflorum</i>	MMHHL	HHHHL	MMMLL	HHHML	L	White-flowered hawkweed
<i>Hieracium scouleri</i>	MMHHL	HHHHL	MMMLL	HHHML	L	Scouler's hawkweed
<i>Horkelia bolanderi</i>	MLLMM	MLMMM	LLMLL	MLMMM	M	Bolander's horkelia
<i>Horkelia daucifolia</i> and var.	MLMML	MLMML	LLMML	MLMML	M	Carrot-leaved horkelia
<i>Horkelia fusca</i>	MLMML	MLMML	LLMLL	MLMML	M	Dusky horkelia
<i>Horkelia tridentata</i> and var.	MLMML	MMMLL	LLMLL	MMMLL	M	Three-toothed horkelia
<i>Holocarpha</i> sp.	LLLLL	LLLLL	LLLLL	LLLLL	L	Tarweed
<i>Hydrophyllum capitatum</i> var. <i>alpinum</i>	MM--	HHH--	MM--	HHH--	L	Alpine waterleaf
<i>Hydrophyllum occidentale</i>	MM--	HHH--	MM--	HHH--	L	California waterleaf
<i>Hymenoxys hoopesii</i> (<i>Dugaldia</i>)	MM--	HHH--	MM--	HHH--	M	Hoope's tall mtn. sneezeweed
<i>Hypericum anagalloides</i>	LLLLL	LMLLL	LLLLL	LMLLL	L	Tinker's penny
<i>Hypericum perforatum</i> * (PO)	LLLLL	LMLLL	LLLLL	LLLLL	M	Klamath weed
<i>Ipomopsis aggregata</i> and ssp.	LLLLL	MMMLL	LLLLL	MMMLL	L	Scarlet skyrocket gilia

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Iris douglasiana</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Douglas's Iris
<i>Iris missouriensis</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Western blue flag
<i>Ivesia campestris</i>	LMMLL	HMMLL	LMMLL	MMMLL	L	Field ivesia
<i>Ivesia lycopoides and var.</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	Clubmoss ivesia
<i>Ivesia unguiculata</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	Yosemite ivesia
<i>Lactuca serriola</i> *	MMHML	HHHHM	MHHML	HHHHM	L	Prickly wild lettuce
<i>Lasthenia sp.</i>	LLLLL	LMMLL	LLLLL	LMLLL	L	Goldfields
<i>Lathyrus brownii</i>	HMHHM	HMHHM	MMMMM	HMHHM	M	Brown's peavine
<i>Lathyrus lanzwertii and var.</i>	HMHHM	HMHHM	MMMMM	HMHHM	M	Nevada sweetpea
<i>Lathyrus nevadensis var. nevadensis</i>	HMHHM	HMHHM	MMMMM	HMHHM	M	Sierra Nevada peavine
<i>Lepidium campestre</i> *	LLL-L	LM-L	LLL-L	LM-L	L	Field pepperwort
<i>Lepidium nitidum</i>	LLL-L	LM-L	LLL-L	LM-L	L	Shining peppergrass
<i>Lepidium perfoliatum</i> *	LLL-L	LM-L	LLL-L	LM-L	L	Perfoliate peppergrass
<i>Linanthus californicus</i>	LLLLL	LMLLL	LLLLL	LMLLL	L	California prickly phlox
<i>Lewisia nevadensis</i>	LLL-L	MM-L	LLL-L	LM-L	L	Nevada lewisia
<i>Lewisia rediviva and var.</i>	LLLLL	MMMLL	LLLLL	LMMLL	L	Common bitterroot
<i>Ligusticum sp.</i>	MMMLM	MHHML	MMMLM	HHHHL	M	Loveage
<i>Limnanthes sp.</i>	LLLLL-	LM-L	LLLLL	LM-L	M	Meadow foam
<i>Linum lewisii</i>	MMMLL	MHMLL	MHMML	MHMML	M	Western blue flax
<i>Lithophragma affine</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	Common woodland star
<i>Lithophragma cymbalaria</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	Mission woodland star
<i>Lithophragma tenellum</i>	LMMLL	MMMLL	LMMLL	MMMLL	M	Slender woodland star
<i>Lomatium sp.</i>	MML--	MML--	LLL--	MML--	M	Lomatium

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Lotus corniculatus</i> *	HHHMH	HHHMH	MMMLM	HHHMH	M	Common bird's-foot trefoil
<i>Hosackia crassifolius</i> var. <i>crassifolius</i> (<i>Lotus</i>)	MHHML	HHHMH	MMMLL	HHHHM	M	Thick-leaved deerweed
<i>Acmispon brachycarpus</i> (<i>Lotus</i>)	LMMLL	HHHML	LMMLL	MHHML	M	Foothill deervetch
<i>Acmispon nevadensis</i> (<i>Lotus</i>)	MHHHL	HHHML	MHHML	MHHHL	M	Nevada deervetch
<i>Acmispon americanus</i> var. <i>americanus</i> (<i>Lotus</i>)	LMMLL	MHHML	LMMLL	MMMLL	M	American bird's-foot trefoil
<i>Hosackia oblongifolia</i> (<i>Lotus</i>)	MHHML	MHHML	LHHML	MHHML	M	Streambank lotus
<i>Lupinus arbustus</i> (PO)	LLLLL	MMMLL	LLLLL	MMMLL	M	Long-spurred lupine
<i>Lupinus argenteus</i> and var. (PO)	LLLLL	MMMLL	LLLLL	MMMLL	M	Loose-flvd.silver lupine
<i>Lupinus bicolor</i>	LLLLL	LMLL	LLLLL	MMMLL	L	Bicolored annual lupine
<i>Lupinus nanas</i>	LLLL-	LM--	LLLLL	MM--	L	Annual sky lupine, Valley sky lupine
<i>Lupinus lepidus</i> and var. (PO)	LLLLL	MMMLL	LLLLL	MMMLL	M	Pacific lupine, Dwarf lupine
<i>Lupinus polyphyllus</i> and ssp.	LLLLL	MMMLL	LLLLL	MMMLL	M	Large-leaf lupine
<i>Media</i> sp. (many)	LLLLL	LLLLL	LLLLL	LLLLL	L	Common media, Tarweed
<i>Medicago arabica</i> *	HHHHH	HHHHH	MMMMM	HHHMM	H	Spotted medick
<i>Medicago lupulina</i>	HHHHH	HHHHH	MMMMM	HHHMM	H	Black medick
<i>Medicago polymorpha</i>	HHHHH	HHHHH	MMMMM	HHHHMM	H	California burclover
<i>Medicago sativa</i> *	HHHHH	HHHHH	HHHHH	HHHHH	H	Common alfalfa
<i>Melilotus albus</i> *	HHHHL	HHHHL	HHHHL	HHHHL	M	White sweet clover
<i>Melilotus officinalis</i> *	HHHML	HHHML	HHHML	HHHML	M	Yellow sweet clover
<i>Mentha</i> sp.	LMLLL	HHHML	LMLLL	HHHML	M	Mint
<i>Mentzelia albicaulis</i>	LLL--	MM--	LLL--	MM--	L	Whitestem blazing star
<i>Mentzelia lindleyi</i>	LLL--	MM--	LLL--	MM--	L	Lindley's blazing star
<i>Mertensia bella</i>	LLM LL	MMMLL	MMMLL	HHHHM	M	Oregon bluebells

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Mertensia ciliata</i> var. <i>stomatechoides</i>	LLMLL	HHHHL	MMMLL	HHHHM	M	Streamside bluebells
<i>Mertensia oblongifolia</i> and var.	MMMLL	HHHHM	MMMLL	HHHHM	M	Sagebrush bluebells
<i>Mimulus</i> sp.	LMLLL	LLLLL	LLLLL	LMMLL	M	Monkey flower
<i>Monardella breweri</i> ssp. <i>lanceolata</i>	M	H	M	M	M	Brewer's mustang mint
<i>Monardella odoratissima</i> and ssp.	M	H	M	M	M	Mountain monardella
<i>Montia</i> sp.	LMMLL	MMMLL	MHHML	MMMLL	L	Miner's lettuce
<i>Nemophila</i> sp.	LMLLL	MMMLL	LLLLL	LMLLL	L	Baby-blue-eyes
<i>Oenothera</i> sp.	LLL--	MMM--	LLL--	MMM--	L	Evening primrose
<i>Orthocarpus</i> sp.	LMLLL	MHHML	LLLLL	MMMLL	L	Owl's clover
<i>Osmorhiza berteroii</i>	MHHML	HHHML	MMMLL	HHHML	M	Mountain sweet-cicely
<i>Osmorhiza occidentalis</i>	MHHML	HHHML	MMMLL	HHHML	M	Western sweet-cicely
<i>Oxpolis occidentalis</i>	LMMLL	LMMML	LMLLL	MHHML	M	Western cowbane
<i>Oxytropis</i> sp. (PO)	LLLLL	LLLLL	LLLLL	LLLLL	L	Alpine locoweed
<i>Pedicularis attolens</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Little elephant heads
<i>Pedicularis groenlandica</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Elephant heads
<i>Penstemon azureus</i> and var	LMLLL	MMMLL	LLLLL	LMLLL	L	Azure penstemon
<i>Penstemon heterodoxus</i> and var.	MMMLL	MMMLL	LMLLL	MMMLL	M	Sierra beardtongue
<i>Penstemon laetus</i> and var.	LMLLL	MMMLL	LLLLL	MMMLL	L	Mountain blue penstemon
<i>Penstemon palmeri</i>	MMMLL	MMMLL	LLLLL	MMMLL	M	Palmer's beardtongue
<i>Penstemon patens</i>	MM--	MM--	LLLLL	MM--	M	Owens Valley penstemon
<i>Penstemon rostriflorus</i>	LMMLL	MMMLL	LLLLL	MMMLL	M	Bridge's beardtongue
<i>Penstemon rydbergii</i> var. <i>oreocharis</i>	LMMIL	MMMLL	LMLLL	MMMLL	M	Rydberg's meadow penstemon
<i>Perideridia bolanderi</i> and ssp.	LMMLL	MMMLL	LMLLL	MMMLL	M	Bolander's yampah

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Perideridia howellii</i>	LMMLL	MMMLL	LMLLL	MMMLL	M	Howell's yampah
<i>Perideridia parishii and ssp.</i>	LMMLL	MMMMM	LMLLL	MMMMM	M	Parish yampah
<i>Perideridia oregana</i>	LMMLL	MMMMM	LMLLL	MMMMM	M	Oregon yampah
<i>Phacelia californica</i>	LLLLL	MHMLL	LLLLL	MHMLL	L	California coast phacelia
<i>Phacelia cicutaria and var.</i>	LLLLL	MHMLL	LLLLL	MHMLL	M	Caterpillar phacelia
<i>Phacelia bicolor var. bicolor</i>	LLLLL	MHMLL	LLLLL	MHMLL	M	Bicolored phacelia
<i>Phacelia hastata and ssp.</i>	LLLLL	MHMLL	LLLLL	MHMLL	L	Hastate-leaf phacelia
<i>Phalacroseris bolanderi</i>	LMLLL	MHHML	LMLLL	MMMLL	M	Bolander's mock dandelion
<i>Phlox adsurgens</i>	LLLLL	LMLLL	LLLLL	LMLLL	L	Northern phlox
<i>Phlox hoodii ssp. canescens</i>	LLLLL	LMLLL	LLLLL	LMLLL	M	Hood's phlox, Carpet phlox
<i>Plagiobothrys sp.</i>	LMLLL	LMMLL	LLLLL	MMMLL	L	Popcorn flower
<i>Plantago sp.</i>	LMLL-	HHHM-	LMLL-	MMMM-	L	Plantain
<i>Bistorta bistortoides (Polygonum)</i>	LLLLL	LMMLL	LLLLL	LMMLL	M	Mountain bistort
<i>Polygonum californicum</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	California knotweed
<i>Polygonum douglasii</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	Douglas knotweed
<i>Persicaria maculosa * (Polygonum)</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	Spotted lady's thumb
<i>Aconogon phytolaccifolium (Polygonum)</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	Alpine knotweed
<i>Potentilla anserina</i>	MLMML	MLMML	LLMLL	MLMML	M	Silver cinquefoil
<i>Potentilla drummondii</i>	MLLMM	MLMMM	LLMLL	MLMMM	M	Drummond cinquefoil
<i>Potentilla flabellifolia</i>	MLMML	MLMML	LLMLL	MLMML	M	Fan-leaf cinquefoil
<i>Drymocallis glandulosa (Potentilla)</i>	LLLML	MLMML	LLLML	MLMML	L	Sticky cinquefoil
<i>Potentilla gracilis and var.</i>	LLLML	MLMML	LLLML	MLMML	L	Slender cinquefoil
<i>Prunella vulgaris and var.</i>	LMLLL	MMMLL	LLLLL	MMMLL	M	Common self-heal

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Ranunculus alismifolius</i> and var.	LLL--	LLL--	LLL--	MMM--	L	Water plantain buttercup
<i>Ranunculus californicus</i> and var.	LLL--	MML--	LLL--	MML--	L	California buttercup
<i>Ranunculus glaberrimus</i> and var.	MML--	MML--	LLL--	MMM--	L	Sagebrush buttercup
<i>Ranunculus occidentalis</i> and var.	LLL--	LMM--	LLL--	MMM--	L	Western buttercup
<i>Ranunculus sceleratus</i> and var.	LLL--	MMM--	LLL--	MMM--	L	Celery-leaf buttercup
<i>Rorippa curvisiliqua</i>	LLL--	MMM--	LLL--	MMM--	M	Sickle-pod yellow cress
<i>Nasturtium officinale</i> (<i>Rorippa</i>)	LMM--	MMM--	LLL--	MMM--	M	White water cress
<i>Rudbeckia californica</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	California coneflower
<i>Rudbeckia hirta</i> var. <i>pulcherrima</i>	LLLLL	LMMLL	LLLLL	LMMLL	M	Black-eyed susan
<i>Rudbeckia occidentalis</i>	LLLLL	MMMLL	LLLLL	LLLLL	M	Western coneflower
<i>Rumex acetosella</i> * (PO)	LLLLL	MMMLM	LLLLL	MMMLM	M	Common sheep sorrel
<i>Rumex crispus</i> *	LMLLL	MMMLM	LLLLL	MMMLL	M	Curly dock
<i>Rumex paucifolius</i>	LLLLL	MMMLM	LLLLL	MMMLL	M	Alpine sheep sorrel
<i>Rumex salicifilus</i>	LMLLL	MMMLM	LLLLL	LMMLL	M	Willow-leaf dock
<i>Salsola paulsenii</i> * (NOX)	LMLLL	MHMLL	LLLLL	MMMLL	L	Barbwire Russian thistle
<i>Salvia columbariae</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	California chia sage
<i>Sanicula bipinnatifida</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	Purple sanicle
<i>Sanicula crassicaulis</i>	LLLLL	LMMLL	LLLLL	LMMLL	L	Pacific sanicle
<i>Micranthes aprica</i> (<i>Saxifraga</i>)	LMMLL	MMMLL	LLLLL	MMMLL	M	Sierra saxifrage
<i>Micranthes californica</i> (<i>Saxifraga</i>)	LMMLL	MMMLL	LLLLL	MMMLL	M	California saxifrage
<i>Micranthes odontoloma</i> (<i>Saxifraga</i>)	LMMLL	MMMLL	LLLLL	MMMLL	M	Streambank saxifrage
<i>Micranthes oregana</i> (<i>Saxifraga</i>)	LMMLL	MMMLL	LLLLL	MMMLL	M	Oregon bog saxifrage
<i>Sedum</i> sp.	LMLLL	LMMLL	LMLLL	LMMLL	M	Stonecrop

FORB RESOURCE VALUE RATINGS

	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Packera cana</i> (<i>Senecio</i>)	LLL--	MMM--	LLL--	HHM--	L	Woolly ragwort
<i>Packera subnuda</i> (<i>S.cymbalariaoides</i>)	LLL--	MMM--	LLL--	MMM--	L	Alpine meadow ragwort
<i>Senecio integerrimus</i> and var. (<i>PO</i>)	LML--	HHM--	LLL--	HHM--	L	Single-stem ragwort
<i>Senecio scorzonella</i>	LMLLL	HHM--	LLL--	HHM--	L	Sierra ragwort
<i>Senecio serra</i>	LMLLL	HHMLL	LMMLL	MHMLL	M	Saw-toothed grousnel
<i>Senecio triangularis</i>	LMLLL	HHMLL	LMMLL	MHLLL	M	Arrow-leaved ragwort
<i>Sibbaldia procumbens</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	Prostrate sibbaldia
<i>Sidalcea calycosa</i> and ssp.	LMLLL	MMMLL	LLLLL	MMMLL	M	Annual checkermallow
<i>Sidalcea malviflora</i> and ssp.	LMLLL	MMMLL	LLLLL	MMMLL	M	Checkerbloom
<i>Sidalcea oregana</i> and ssp.	LMMLL	MMMLL	LMLLL	MMMLL	M	Oregon checkermallow
<i>Sidalcea reptans</i>	LMMLL	MMMLL	LLLLL	MMMLL	M	Sierra or creeping checkermallow
<i>Silene douglasii</i> var. <i>douglasii</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	Douglas's catchfly
<i>Silene laciniata</i> ssp. <i>californica</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	California pink
<i>Silene occidentalis</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	Western catchfly
<i>Sisymbrium altissimum</i> *	LL---	MM---	LL---	MM---	L	Tall tumble mustard
<i>Sisyrinchium bellum</i>	LMLLL	MMMLL	LMLLL	MMMLL	L	California blue-eyed grass
<i>Sisyrinchium californicum</i>	LMLLL	MMMLL	LMLLL	MMMLL	L	California golden-eyed grass
<i>Sisyrinchium elmeri</i>	LMLLL	MMMLL	LMLLL	MMMLL	L	Elmer's yellow-eyed grass
<i>Sisyrinchium halophilum</i>	LMLLL	MMMLL	LMLLL	MMMLL	L	Nevada blue-eyed grass
<i>Maianthemum racemosum</i> (<i>Smilacina</i>)	LLLLL	MMMLL	LLLLL	MHHML	M	Feathery false solomon's plume
<i>Maianthemum stellatum</i> (<i>Smilacina</i>)	LLLLL	MMMLL	LLLLL	MHHML	M	Starry false solomon's seal
<i>Solanum douglasii</i>	LLLLL	MMMLL	LLLLL	LLLLL	L	Douglas nightshade
<i>Solanum umbelliferum</i>	LLLLL	MMMLL	LLLLL	LMMLL	L	Bluewitch nightshade

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Solidago elongata</i>	LLLLL	LMLLL	LLLLL	MLMMM	H	West coast goldenrod
<i>Solidago confinis</i>	LLLLL	LMLLL	LMLLL	LMLLL	M	Southern goldenrod
<i>Solidago multiradiata</i>	LMLLL	LMLLL	LMLLL	LMLLL	L	Northern goldenrod
<i>Sphaeralcea ambigua var. ambigua</i>	LLLLL	LMMLL	LLLLL	MMMMML	M	Mtn. apricot globe mallow
<i>Sphaeralcea grossularifolia</i>	MMMMML	MHMMML	LMLLL	MHMMML	M	Currant-leaved globe mallow
<i>Spiranthes romanzoffiana</i>	LLL-	LMML-	LLL-	MHML-	L	Hooded ladies tresses
<i>Stachys albens</i>	LLLLL	LMMLL	LLLLL	MHMMML	M	White hedge nettle
<i>Stachys chamissonis</i>	LLLLL	LMMLL	LLLLL	MHMMML	M	Chamisso's hedge nettle
<i>Stellaria calycantha</i>	MMMLL	HHMML	MMMLL	HHHML	L	Northern bog starwort
<i>Stellaria longipes ssp. longipes</i>	MMMLL	HHHML	MMMMM	MHMMML	M	Long-stalked starwort
<i>Stellaria media</i> *	MM---	HH---	MM---	HH---	L	Common chickweed
<i>Stellaria borealis ssp. pilosa</i>	MM--	MMMLL	LLLLL	LMLLL	L	Boreal starwort
<i>Swertia perennis</i>	LLLLL	MMMLL	LLLLL	MHHHM	H	Star green gentian, Star swertia
<i>Taraxacum californicum</i>	HHHHH	HHHHH	HHHHH	HHHHH	L	California dandelion
<i>Taraxacum officinale</i> *	HHHHH	HHHHH	HHHHH	HHHHH	L	Common dandelion
<i>Thalictrum alpinum</i>	LLLLL	MMMLL	LLLLL	MMMLL	L	Alpine meadow rue
<i>Thalictrum fendleri</i>	LLLLL	MMMLL	LLLLL	MMMLL	L	Fendler's meadow rue
<i>Thalictrum sparsiflorum</i>	LLLLL	MMMLL	LLLLL	MMMLL	M	Few-flowered meadow rue
<i>Thysanocarpus</i> sp.	LLLLL	MMMLL	LLLLL	MMMLL	L	Fringe pod
<i>Trichostema</i> sp.	LLLLL	LMLLL	LLLLL	LMLLL	L	Blue curls
<i>Trifolium albopurpureum</i>	MMMMM	MMMMM	MMMLL	MMMMM	M	Rancheria clover
<i>Trifolium beckwithii</i>	HHHHH	HHHHH	HHHHH	HHHHH	M	Beckwith's clover
<i>Trifolium bolanderi</i> (SE)	HHHHH	HHHHH	HHHHH	HHHHH	M	Bolander's clover

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Trifolium campestre</i>	HHHHH	HHHHH	HHHHH	HHHHH	L	Field hop clover
<i>Trifolium cyathiferum</i>	HHHHH	HHHHH	HHHHH	MMMMM	M	Bowl clover
<i>Trifolium hirtum</i> *	HHHHH	HHHHH	MMMMM	HHHHH	M	Rose clover
<i>Trifolium longipes</i> and ssp.	HHHHH	HHHHH	HHHHH	MMMMM	M	Long-stalked clover
<i>Trifolium monanthum</i> and ssp.	MMMMM	HHHHH	MMMMM	HHHHH	M	Carpet clover
<i>Trifolium variegatum</i> and var.	HHHHH	HHHHH	HHHHH	MMMMM	M	White-tip clover
<i>Trifolium waldenovii</i>	HHHHH	HHHHH	HHHHH	HHHHH	M	Tomcat clover
<i>Trifolium wormskiioldii</i>	HHHHH	HHHHH	HHHHH	HHHHH	M	Sierra clover, Cow clover
<i>Triphysaria</i> sp.	LML--	HHH--	LML--	LML--	L	Owl's clover
<i>Triteleia crocea</i>	LMLLL	LMMLL	LLLLL	MHMLL	L	Common golden stars
<i>Triteleia hyacinthina</i>	LMLLL	LMMLL	LLLLL	MHMLL	H	White triteleia
<i>Triteleia laxa</i>	LMLLL	LMMLL	LLLLL	MHMLL	M	Ithuriel's spear
<i>Typha angustifolium</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Slender-leaf cattail
<i>Typha latifolia</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Common cattail
<i>Veratrum californicum</i> var. <i>californicum</i>	LLMML	LMMLL	LLLLL	LLMLL	H	California false corn lily
<i>Verbascum thapsus</i> *	LLLLL	LLLLL	LLLLL	LLLLL	L	Common woolly mullein
<i>Verbena hastata</i>	LLMLL	LMMLL	LLLLL	MMMLL	L	American blue verbena
<i>Verbena lasiostachys</i> and var.	LLMLL	LMMLL	LLLLL	MMMLL	L	Western verbena
<i>Veronica</i> sp.	LMLLL	MMMLL	LLLLL	MMMLL	L	Speedwell
<i>Vicia americana</i> ssp. <i>americana</i>	HHHH-	HHHH-	HHHH-	HHHH-	M	American vetch
<i>Vicia sativa</i> and ssp.	HHHH-	HHHH-	HHHH-	HHHH-	M	Common vetch, Spring vetch
<i>Vicia villosa</i> and ssp. *	MMMM-	MMMM-	LLLL-	HHHH-	M	Woolly-pod vetch, Winter vetch
<i>Viola adunca</i> ssp. <i>adunca</i>	MMMM-	HHH--	LLL--	HHH--	L	Western dog violet

FORB RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Viola beckwithii</i>	MMML-	HHH--	LLLL-	MMMM-	L	Beckwith violet
<i>Viola glabella</i>	MMM--	MMM--	MMM--	MMM--	L	Yellow stream violet
<i>Viola lobata</i> and ssp.	MMM--	MMM--	MMM--	MMM--	L	Yellow pine violet
<i>Viola macloskeyi</i>	LMLL-	MMML-	LLLL-	LMML-	M	Macloskey's white violet
<i>Viola pedunculata</i>	LMLL-	MMML-	LLLL-	MMMM-	L	Calif. Johnny jump-up
<i>Wyethia elata</i>	LLLLL	LMLLL	LLLLL	MHMLL	M	Hall's mule's ears
<i>Wyethia glabra</i>	LLLLL	LMLLL	LLLLL	MHMLL	M	Coast-range mule's ears
<i>Wyethia mollis</i>	LMLLL	LMLLL	LLLLL	MMMLL	M	Mountain mule ears
<i>Xantium sp (NOX)</i>	LLLLL	LLLLL	LLLLL	LLLLL	L	Cocklebur
<i>Toxicoscordion fremontii (PO) (Zigadenus)</i>	LMLLL	LMMLL	LLLLL	LMMLL	L	Fremont's death camas
<i>Toxicoscordion venenosum var. venenosum (PO)</i>	LLLLL	LMLLL	LLLLL	LMLLL	L	Meadow death camas

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Acer glabrum</i> and var.	MMMMM	MMMMM	MMMMM	MMMMM	H	Western mountain maple
<i>Acer circinatum</i>	MMMLL	MMMMM	LLLLL	MMMMM	M	Western vine maple
<i>Adenostoma fasciculatum</i>	LLLLL	LMLLL	LLLLL	MMMLL	M	California chamise
<i>Alnus incana</i> ssp. <i>tenuifolia</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Mountain alder
<i>Alnus rhombifolia</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Western white alder
<i>Alnus viridis</i> ssp. <i>sinuata</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Thin-leaf alder, Sitka alder
<i>Ambrosia dumosa</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	White bur-sage
<i>Amelanchier alnifolia</i> and var.	MLMMM	HMHHH	LLLLL	HMHMH	M	Western serviceberry
<i>Amelanchier utahensis</i>	MLMMM	HMHHH	LLLLL	HMHMH	M	Utah serviceberry
<i>Arctostaphylos</i> sp.	LLLLL	LLLLL	LLLLL	LLLLL	M	Manzanita
<i>Artemesia arbuscula</i> and ssp.	LLLLL	MMLMM	LLLLL	HHHMH	M	Low sagebrush
<i>Artemesia cana</i> ssp. <i>bolanderi</i>	LLLLL	H	M	M	M	Bolander's silver sagebrush
<i>Artemesia nova</i>	LLLLL	MLLMM	LLLLL	LLLMM	M	Black sagebrush
<i>Artemesia californica</i>	LLLLL	HHMMH	LLLLL	HHMMH	L	California sagebrush
<i>Artemesia tridentata</i> and ssp.	LLLLL	LLLLL	LLLLL	LLLLL	M	Big sagebrush, Mtn. sagebrush
<i>Atriplex canescens</i> and var.	MMMMH	HHHHH	MMMMH	HHHHH	M	Fourwing saltbush
<i>Atriplex confertifolia</i>	MMMMM	HHMHH	LLLLM	LLMML	M	Spiny shadscale
<i>Atriplex lentiformis</i>	LLLLL	MMMMI	LLLLL	MMMMI	M	Quailbrush, Lens-scale
<i>Baccharis pilularis</i>	LMLLL	LMMLL	LLLLL	LMMLL	M	Chaparral broom
<i>Baccharis salicifolia</i> ssp. <i>salicifolia</i>	LMLLL	LMMLL	LLLLL	LMMLL	M	Seep willow, Mule fat
<i>Berberis aquifolium</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	Mountain grape
<i>Berberis nervosa</i>	LLLLL	LLLLL	LLLLL	LLLLM	M	Cascades barberry
<i>Brickellia californica</i>	LLLLL	LMMLL	LLLLL	LLMML	M	California brickell bush

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Brickellia grandiflora</i>	LLLLL	LMLLL	LLLLL	LLMML	M	Large fld. brickell bush
<i>Ceanothus cordulatus</i>	LLLLL	LMMML	LLLLL	HHHML	M	Mountain whitethorn
<i>Ceanothus cuneatus and var.</i>	LLLMM	LLLML	LLLLL	MMMH	M	Common buckbrush
<i>Ceanothus integerrimus</i>	LLMML	MMLML	LLLLL	HHHHM	M	Deerbrush ceanothus
<i>Ceanothus leucodermis</i>	LLMLL	MMLML	LLLLL	HHHHM	M	Chaparral whitethorn
<i>Ceanothus spinosus</i>	LLLLM	LLLLM	LLLLM	LMMML	M	Red heart ceanothus
<i>Ceanothus velutinus</i>	LLLLM	LLLLM	LLLLM	LMMLL	M	Snowbrush, Tobacco brush
<i>Cercocarpus betuloides and var.</i>	MLLMM	MLLMM	LLLLM	HHHHM	M	Birch-leaf mahogany
<i>Cercocarpus ledifolius and var.</i>	MMMMM	MMMMM	LLLLM	HHHHH	M	Curlleaf mountain mahogany
<i>Chamaebatia foliolosus</i>	LLLLL	LLLLL	LLLLL	LLLLL	H	Bearclover, Sierra mtn misery
<i>Chamaebatiaria millefolium</i>	LLLLL	LLLLL	LLLLL	LLLLL	M	Desert sweet, D. fern bush
<i>Chrysothamnus sp.</i>	LLLLL	LLLLM	LLLLL	HMMML	M	Rabbitbrush
<i>Coleogyne ramosissima</i>	MLLMM	MLLMM	LLLLM	MMMMM	M	Black brush coleogyne
<i>Crataegus douglasii</i>	LLLMM	LLLMM	LLLMM	MML	M	Douglas's black hawthorn
<i>Cytisus scoparius *</i>	LLLLL	LLLLL	LLLLL	LMLLL	M	Scotch broom
<i>Encelia sp.</i>	LLLLL	LMMML	LLLLL	LMMML	L	Brittlebush
<i>Ephedra californica</i>	MLMMH	MLLMH	MLLMM	MLLMM	M	California mormon tea
<i>Ephedra nevadensis</i>	MLMMH	MLLMH	MLLMM	MLLMH	M	Nevada Mormon tea
<i>Ephedra viridis</i>	MLLMM	MLLMM	MLLMM	MLLMM	M	Green Mormon tea
<i>Eriodictyon californicum</i>	LLLLL	LLLLL	LLLLL	LMLLM	L	California yerba santa
<i>Eriogonum fasciculatum and ssp.</i>	LLLLL	MMMMM	LLLLL	MLMMM	M	California wild buckwheat
<i>Eriogonum microthecum and ssp.</i>	LLLLL	MMMMM	LLLLL	MLMMM	M	Great Basin buckwheat
<i>Eriogonum ovalifolium</i>	LLLLL	MMLLM	LLLLL	MMLLM	M	Subalpine buckwheat

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Eriogonum umbellatum</i> and ssp.	LLLLL	MMLLM	LLLLL	MMLLM	M	Sulfur-flowered buckwheat
<i>Fallugia paradoxa</i>	LLLLM	MLLMH	LLLLL	MLLMH	M	Apache plume
<i>Fremontodendron californicum</i>	LLLLL	MLLMM	LLLLL	HHMMH	M	California flannel bush
<i>Fremontodendron mexicanum</i>	LLLLL	MLLMM	LLLLL	HHMMH	M	Mexican flannel bush
<i>Garrya elliptica</i>	LLLLL	LMMML	LLLLL	MHHML	H	Coast silktassel
<i>Garrya flavescens</i>	LLLLL	LLMML	LLLLL	MHHMH	H	Ashy silktassel
<i>Garrya fremontii</i>	LLLLL	LLMLL	LLLLL	MHHMM	H	Fremont's silktassel
<i>Grayia spinosa</i>	MMLMH	HHLMH	LLLMM	MMLMH	M	Spiny hopsage
<i>Gutierrezia</i> sp.	LLLLL	LLLLL	LLLLL	LLLLL	M	Snakeweed, Matchweed
<i>Hazardia squarrosa</i> and var.	LLLLL	MLLMM	LLLLL	MLLMM	M	Saw-toothed goldenbush
<i>Heteromeles arbutifolia</i> (PO)	LLLLL	LLLLL	LLLLL	LMMLM	M	Toyon, Christmas berry
<i>Holodiscus discolor</i> and var.	LLLML	LLLMM	LLLLL	MLLMM	M	Creambush, Ocean spray
<i>Juniperus</i> sp.	LLLLL	LLLLM	LLLLL	LLLMM	M	Juniper
<i>Kochia americana</i>	LMLLL	HHHHI	LMLLL	MMMMM	M	Green molly kochia
<i>Krascheninnikovia lanata</i>	HMMHH	HMMHH	HMMHH	HMMHH	M	Common winter fat
<i>KeckIELLA antirrhinoides</i> and var.	LLLLM	LMMML	LLLLL	LMMLL	M	Snap dragon beardtongue
<i>KeckIELLA rothrockii</i> and var.	LLLLL	LMMML	LLLLL	LMMHL	M	Rothrock's bush beardtongue
<i>Lonicera caerulea</i>	LLLML	MMLLM	LLLLL	MMLLM	M	Bluefly honeysuckle
<i>Lonicera conjugialis</i>	LLLML	MMLLM	LLLLL	MMLLM	M	Double-fl. honeysuckle
<i>Lonicera interrupta</i>	LLLML	MMLLM	LLLLL	MMLLM	M	Chaparral honeysuckle
<i>Lonicera involucrata</i> and var.	LLLML	MMLLM	LLLLL	MMLLM	M	Black twinberry
<i>Acmisonia glaber</i> (<i>Lotus scoparius</i>)	LLMIL	MMLLM	LLLLL	MMMLM	M	Deerweed, Calif. broom
<i>Malacothamnus fremontii</i>	LLMML	LMMIL	LLLLL	MMMLM	M	Fremont's bush mallow

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Peraphyllum ramossissimum</i>	LLLMM	MMLMM	LLLLL	HMMHH	M	Wild crab apple
<i>Philadelphus lewisii</i>	LLLML	LLLML	LLLLL	MLLMM	M	California mock-orange
<i>Philadelphus microphyllus</i>	LLLML	LLLML	LLLLL	MLLMM	M	Little-leaf mock-orange
<i>Phlox sp.</i>	LLLLL	LMMLL	LLLLL	LMMLL	M	Phlox
<i>Physocarpus alternans</i>	LLLML	LLMML	LLLLL	MLLML	M	Dwarf ninebark
<i>Physocarpus capitatus</i>	LLLML	LLMML	LLLLL	MLLML	M	Western ninebark
<i>Pickeringia montana</i>	LLLLL	LLMML	LLLLL	MMLML	M	Chaparral pea
<i>Populus fremontii</i> ssp. <i>fremontii</i>	LLLLL	LLMML	LLLLL	MHHML	H	Fremont's cottonwood
<i>Populus tremuloides</i>	LLMML	LMMLL	LLLLL	MHHML	H	Quaking aspen
<i>Populus trichocarpa</i>	LLMML	LMMML	LLLLL	MHHML	H	Western black cottonwood
<i>Prunus andersonii</i>	LLLML	LMMML	LLLLL	MHHMH	M	Anderson's desert peach
<i>Prunus emarginata</i>	LLLML	MMLMM	LLLML	MMMMM	M	Common bitter cherry
<i>Prunus fasciculata</i> & var.	LLLML	MMLMM	LLLLL	MMMMM	M	Desert almond
<i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i>	LLLML	MMLMM	LLLLL	MHHMH	M	Holly-leaved cherry
<i>Prunus subcordata</i>	LLLML	MMLMM	LLLLL	MHHMM	M	Sierra plum, Pacific plum
<i>Prunus virginiana</i> var. <i>demissa</i>	LLLML	MMLMM	LMMLL	MHHMM	M	Western chokecherry
<i>Purshia stansburyana</i>	MMLMH	HMMHH	LLLLM	HHMHH	M	Stansbury's cliffrose
<i>Purshia tridentata</i> and var.	MLLMM	MLLHH	LLLLL	MLLMM	H	Antelope bitterbrush
<i>Purshia tridentata</i>	HMHHH	HMHHH	LLLMM	HMHHH	M	Bitterbrush
<i>Quercus berberidifolia</i>	LLLML	LMMLL	LLLLL	MHHMH	H	Chaparral scrub oak
<i>Quercus douglasii</i>	LLLML	LMMLL	LLLLL	MHHML	H	California blue oak
<i>Quercus dumosa</i>	LLLLL	LLLLL	LLLLL	MMMMM	H	Nuttall's scrub oak
<i>Quercus kelloggii</i>	LLLLL	LMMLL	LLLLL	MHHMM	H	California black oak

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Quercus vaccinifolia</i>	LLLLL	MLMMM	LLLLL	HMMHH	H	Huckleberry oak
<i>Rhamnus crocea</i>	LLLML	MMLLM	LLLLL	HMMHH	M	Spiny redberry
<i>Rhamnus ilicifolia</i>	LLLML	MMLLM	LLLLL	HMMHH	H	Holly-leaf redberry
<i>Frangula rubra (Rhamnus)</i>	LLLLL	LMLLM	LLLLL	MHHMH	M	Sierra coffeeberry
<i>Rhus ovata</i>	LLLLL	LLLML	LLLLL	MLLMH	M	Sugar bush sumac
<i>Rhus aromatica (R. trilobata)</i>	LLLLL	LLLMM	LLLLL	LLLMM	M	Skunkbush sumac
<i>Ribes aureum</i> and var.	HHHMH	HMHML	LLLLL	HMHMH	H	Golden currant
<i>Ribes cereum</i> and var.	LLLMM	MLLMM	LLLLL	HLMHH	M	Wax currant
<i>Ribes inerme</i> and var.	LLLLL	MLLMM	LLLLL	MLMMH	M	Whitestem gooseberry
<i>Ribes montigenum</i>	LLLLL	MLMML	LLLLL	MMMH	M	Mountain prickly gooseberry
<i>Ribes nevadense</i>	LLLLL	MLMML	LLLLL	MMMH	M	Mountain pink currant
<i>Ribes viscosissimum</i>	LLLLL	LLMML	LLLLL	MMMH	M	Sticky currant
<i>Rosa californica</i>	LLLML	MMMM	LLLMM	HMHHH	H	California wild rose
<i>Rosa woodsii</i> and ssp.	LLLMM	MLMM	LLLMM	HMHHH	H	Wood's rose, Interior rose
<i>Rubus armeniacus</i>	LLLLL	LLLML	LLLLL	HMMML	H	Himalayan blackberry
<i>Rubus leucodermis</i>	LLLLL	LLLML	LLLLL	MMMM	H	White-stem raspberry
<i>Rubus parviflorus</i>	LLLML	MLMML	LLLML	MLMML	H	Western thimbleberry
<i>Salix petrophyllea (S. arctica)</i>	MLLHH	MMMM	LLLLM	HMMHH	M	Arctic willow
<i>Salix bebbiana</i>	MLLHH	MMMM	MLLMM	MMMM	H	Bebb's willow, Gray willow
<i>Salix boothii</i>	MLLHH	MMMM	LLLLM	MMMM	M	Booth's willow
<i>Salix drummondiana</i>	MLMHH	MMMM	LLLLM	MMMM	M	Drummond's willow
<i>Salix eastwoodiae</i>	MLLHH	MMMM	LLLLM	MMMM	M	Eastwood's willow
<i>Salix exigua</i> and var.	MLMHH	MMMM	MLLMM	HMMHH	H	Coyote willow, Sandbar willow

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Salix geyeriana</i>	MLLHH	MMMMM	LLLLM	MMMMM	M	Geyer's willow
<i>Salix lasiolepis</i>	MLLHM	MMMMM	LLLLM	MMMMM	M	Arroyo willow
<i>Salix lemmontii</i>	MLLHH	MMMMM	LLLLM	MMMMM	M	Lemmon's willow
<i>Salix lutea</i>	MLLHM	HMMHH	HMMHH	HMMHH	M	Western yellow willow
<i>Salix melanopsis</i>	MLLHM	MMMMM	LLLLM	MMMMM	M	Dusky willow
<i>Salix oreastera</i>	MLLHM	HMMHH	HMMHH	HMMHH	M	Gray-leaf Sierra willow
<i>Salix scouleriana</i>	MLLHH	MMMMM	LLLHM	HHHHH	M	Scouler's willow
<i>Salvia apiana</i>	LLLLL	LLMLL	LLLLL	LMLLL	M	California white sage
<i>Salvia dorrii</i> and var.	LLLLL	LLMLL	LLLLL	LMLMM	M	Great Basin blue sage
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	MLMHM	MLMH	LLLMM	HHHHH	M	Western blue elderberry
<i>Sambucus racemosa</i> var. <i>racemosa</i>	HHMH	HMMHH	MMMMM	HMMMH	M	Mountain red elderberry
<i>Sarcobatus vermiculatus</i>	LLLML	MMLMM	MLLMM	MMLMM	M	Black greasewood
<i>Shepherdia argentea</i>	LLLLL	MLMMM	LLLLL	MLMMM	M	Silver buffaloberry
<i>Sorbus californica</i>	LLLLL	LMMLM	LLLLL	MLMMM	M	California mountain ash
<i>Sorbus scopulina</i>	LLLLL	LMMLM	LLLLL	MLMMM	M	Cascade mountain ash
<i>Sorbus sitchensis</i> and var.	LLLLL	LMMLM	LLLLL	MLMMH	M	Sitka mountain ash
<i>Spirea douglasii</i>	LLLML	MLMML	LLLLL	MLMML	M	Douglas's spiea
<i>Spirea splendens</i>	LLLML	MLMML	LLLLL	MLMML	M	Subalpine spirea
<i>Symporicarpos albus</i> var. <i>laevigatus</i>	MLLMM	MLMHH	MLLMH	MLMHH	M	Common snowberry
<i>Symporicarpos mollis</i>	MLLMM	MLMHH	MLLMH	MLMHH	M	Creeping snowberry
<i>Symporicarpos rotundifolius</i> and var.	LLLMM	MMMMM	LLLMM	MMMH	M	Round-leaf mtn. snowberry
<i>Tetradymia canescens</i> (PO)	LLLLL	LLLLL	LLLLL	LLLLL	M	Spineless horsebrush
<i>Umbellularia californica</i>	LLLML	MLML	LLLLL	MLMMH	H	California bay laurel, Bay tree

WOODY RESOURCE VALUE RATINGS						
	YSSFW	YSSFW	YSSFW	YSSFW	E	Common Name
Species	Cattle	Sheep	Horse	M.Deer		
<i>Vaccinium cespitosum</i>	LLLLL	MMLMM	LLLLL	HHMHM	H	Dwarf bilberry, Sierra bilberry
<i>Vaccinium membranaceum</i>	LLLML	MMMMM	LLLLL	MMMHM	M	Thin-leaf huckleberry
<i>Vaccinium ovatum</i>	LLLML	MMMMM	LLLLL	MMMMM	M	California huckleberry
<i>Vaccinium uliginosum ssp. <i>occidentale</i></i>	LLLML	MMMMM	LLLLL	MMMMM	M	Western or bog blueberry
<i>Vitis californica</i>	LLLLL	MLMML	LLLLL	LLMML	M	California wild grape
<i>Vitis girdiana</i>	LLLLL	MLMML	LLLLL	LLMML	M	Southern California wild grape

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